

This Report on the Plastics Products Industry relates to establishments engaged wholly or mainly in manufacturing plastics goods and components, including resin bonded fibreglass goods, not reported elsewhere, plastics building materials, rain water goods, etc and plastics packaging (other than bags of transparent regenerated cellulose film). Covered mattresses, etc, of plastics foam, plastics belting, hose and fitments, plastics floor coverings, plastics brushes, plastics toys, games and sports requisites, plastics buttons, plastics products used as leather substitutes and fibreglass boats are all excluded. The coating of metal with plastics (including dip coating of pipes, wires etc) is also excluded.

This industry corresponds to minimum list heading 496 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census.

The industry corresponds to the Plastics Moulding and Fabricating Industry (Part 124) in the Reports on the last detailed Census of Production for 1963 except that covered mattresses, bolsters, pillows and cushions of plastics foam are now included in the Bedding and Soft Furnishings Industry (Part 133), plastics buttons in the Miscellaneous Manufacturing Industries (Part 150), small cases of plastics in the Leather Goods Industry (Part 114), plastics belting, hose and fitments and the plastics coating of metal (including dip coatings of pipes, wires etc) in the Rubber Industry (Part 144). Dental goods of plastics (including artificial teeth, etc), artificial limbs and appliances of plastics (other than surgical boots) which were previously included in the Scientific, Surgical and Photographic Instruments, etc Industry (Part 53) are now included in this industry.

Throughout this Report the figures given for 1963 have been reclassified, as far as possible according to the Standard Industrial Classification (Revised 1968) so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms, which provided limited information only, has been arbitrary.

TREATMENT OF FABRICS BACKED WITH PLASTIC FOAM AND FABRIC TO FABRIC BONDED MATERIALS

Sales of fabric backed with plastic foam and fabric to fabric bonded materials are shown as principal products of the same industry as the main fabric rather than that of the material used for the backing, bonding or lining. Thus where the main fabric is cotton, linen or man-made fibres, woollen or worsted, or knitted fabric the sales are shown in the Table 5 of the Reports on the Weaving of Cotton, Linen and Man-made Fibres (Part 100), Woollen and Worsted (Part 101) and Hosiery and Other Knitted Goods (Part 104) respectively. Total sales of all fabric backed with foam and fabric bonded materials, reported in the census together with those reported by textile converters in a separate inquiry, are brought together in a supplement to Table 5 in the Report on the Weaving of Cotton, Linen and Man-made Fibres Industry (Part 100).

Sales of fabric backed with plastic foam and fabric to fabric bonded materials were not taken into account in classifying returns to the three textile industries in which they are shown. Where fabrics were foam backed or bonded on commission, returns reporting doing this work were classified to the Textile Finishing Industry (Part 110).

METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure except for the special treatment of fabric backed with plastic foam and fabric to fabric bonded materials referred to above. The classification of returns to sub-divisions of the industry followed the standard procedure.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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(c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).

(d) Administrative, technical and clerical employees.

(e) Excluding expenditure for establishments not yet in production.

(f) Acquisitions less disposals.TABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

	Unit	All establishments	
		1963	1968
Number of enterprises	No.	1,305	1,790
Number of establishments	"	1,425	2,018
Gross output	£'000	171,804	353,731
Net output	"	84,261	176,452
Net output per head	£	1,187	1,796
Sales and work done	£'000	159,074	327,014
	"	11,266	22,480
Purchases	"	77,836	152,570
	"	8,376	18,059
Payments to other organisations	"	1,435	4,207
	"	2,056	4,887
	"		894
Stocks and work in progress	"	+ 3,625	+ 7,575
Total stocks and work in progress	"	27,512	51,687
	"	+ 1,884	+ 2,557
Goods on hand for sale	"	8,753	18,477
	"	- 420	+ 1,681
Work in progress	"	4,852	10,703
	"	+ 2,161	+ 3,338
Materials, stores and fuel	"	13,907	22,507
	Th.	71.0	98.2
Number employed on average during the year	"	55.3	74.5
	"	14.1	21.9
	£'000	30,995	60,414
Wages and salaries	"	12,945	27,753
	"	10,785	23,215
Capital expenditure (e)	"	2,557	3,810
Total	"	401	563
New building work	"	7,229	17,577
Land and existing buildings (f)	"	599	1,265
Plant and machinery (f)	"		
Vehicles (f)	"		

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 16 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 4 per cent. For 1963 the comparable figures were 15 per cent. and 2 per cent. respectively.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

	1963	1968
Number of establishments	948	1,370
Average number employed:		
Working proprietors	1,263	1,444
Other persons employed	8,254	12,018

Footnotes continued on page 149/2.

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab-lish-ments	Enter-prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
1-5	380	376	1,220	..	..	..
6-10	294	292	2,300	..	..	..
11-24	476	469	8,343	..	..	..
25-49	183	179	6,849	24,962	11,932	1,742
50-99	164	158	11,397	39,467	19,392	1,696
100-199	112	100	15,501	53,975	28,364	1,830
200-299	65	58	15,710	57,658	28,687	1,826
300-399	29	26	10,319	37,034	18,020	1,746
400-999	32	32	17,129	64,690	31,927	1,864
1,000 and over	4	4	5,058	17,645	9,138	1,807
Unsatisfactory returns	279	270	4,416	..	..	..
Total	2,018	1,790	98,242	353,731(c)	176,452(c)	1,796(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Employees		Wages and salaries		Wages and salaries per head	
	Oper-atives	Others (d)	Oper-atives	Others (d)	Oper-atives	Others (d)
	Number	Number	£'000	£'000	£	£
1-5	..	..	..	..	..	..
6-10	..	..	..	..	..	..
11-24	..	..	..	..	..	..
25-49	5,450	1,245	4,314	1,668	792	1,340
50-99	8,936	2,354	6,798	2,955	761	1,255
100-199	12,081	3,391	9,571	4,362	792	1,286
200-299	12,260	3,432	10,166	4,417	829	1,287
300-399	7,816	2,502	6,348	2,736	812	1,093
400-999	12,830	4,290	10,808	5,479	842	1,277
1,000 and over	3,680	1,378	3,120	1,909	848	1,385
Unsatisfactory returns	..	..	..	..	..	..
Total	74,526(c)	21,936(c)	60,414(c)	27,753(c)	811(c)	1,265(c)

(a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

(d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	2	2	4
18 and over	57	39	96
All ages	59	41	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

Footnotes to Table 4.

- (a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 35 establishments in 1968 and 33 in 1963.
- (b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5.
- (c) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.
- (d) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (e) Characteristic products relate only to specific sub-divisions of the industry.
- (f) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (g) Administrative, technical and clerical employees.
- (h) Excluding expenditure for establishments not yet in production.
- (i) Acquisitions less disposals.

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

	Unit	Sub-divisions of the industry (b)				Sub-divisions of the industry (b)				Total	
		Building materials		Packaging materials		Manufactures of plastics foam (other than packaging)	Other				
		01		02			03	04			
		1963	1968	1963	1968	1963	1968	1963	1968	1963	1968
Number of enterprises (c)	No.	31	45	49	74	16	21	291	348	377	472
Number of establishments	"	32	56	73	100	24	30	362	439	491	625
Gross output	£'000	12,977	40,449	33,936	76,998	11,095	15,957	88,534	163,456	146,541	296,860
Net output	"	5,660	18,937	15,157	36,419	3,738	5,493	47,317	87,234	71,872	148,082
Net output per head	£	1,618	2,700	1,167	1,787	1,311	1,520	1,148	1,696	1,187	1,796
Sales and work done	£'000	11,603	36,679	32,308	74,395	10,839	15,774	80,934	147,590	135,683	274,437
	{ goods produced and work done (d)					179	126	7,135	13,523	9,609	18,866
	{ merchanted goods and canteen takings	"	"	"	"	9,279	13,874	(e)	(e)	(e)	(e)
Sales of characteristic products	"	9,055	29,179	24,864	63,734	86	88	..	..	85	91
Index of specialisation (f)	Per cent.	78	80	77	86	6,989	9,716	35,633	63,607	66,391	128,040
Purchases	£'000	6,246	17,505	17,523	37,213	169	134	5,107	10,586	7,144	15,156
	{ materials for use in production and packaging, and fuel	"	"	"	"	21	54	771	2,352	1,224	3,531
	{ goods for merchenting and canteen purchases	"	"	"	"						
	{ for work done on materials given out for transport	"	"	"	"						
Payments to other organisations	"	149	339	283	786						
	{ by road	"	"	"	"						
	{ by rail and other means excluding postal services	"	"	"	"	287	450	835	1,311	1,754	4,102
		221	1,066	411	1,275		21		429		750
Stocks and work in progress											
Goods on hand for sale	"	+ 256	+ 314	+ 383	+ 627	+ 46	+ 14	+ 921	+ 1,191	+ 1,607	+ 2,146
	{ change during year	"	"	"	"	241	272	4,237	7,774	7,466	15,507
	{ at end of year	"	"	"	"						
Work in progress	"	+ 28	+ 106	+ 39	+ 110	+ 31	+ 42	- 457	+ 1,152	- 358	+ 1,410
	{ change during year	"	"	"	"	168	331	2,908	5,965	4,139	8,982
	{ at end of year	"	"	"	"						
Materials, stores and fuel	"	+ 252	+ 335	+ 353	+ 491	+ 108	- 88	+ 1,130	+ 2,063	+ 1,843	+ 2,801
	{ change during year	"	"	"	"	657	504	7,902	11,365	11,862	18,888
	{ at end of year	"	"	"	"						
Number employed on average during the year	No.	3,497	7,013	12,989	20,380	2,852	3,614	41,199	51,440	60,537	82,447
	{ total including working proprietors	"	"	"	"	2,297	2,763	32,927	39,867	48,046	63,447
	{ operatives	"	"	"	"	546	844	8,083	11,324	12,267	18,675
	{ other employees (g)	"	"	"	"						
Wages and salaries	£'000	1,667	4,749	5,979	12,950	1,360	2,285	17,886	31,448	26,892	51,433
	{ of operatives	"	"	"	"	520	1,081	7,395	13,772	11,239	23,627
	{ of other employees (g)	"	"	"	"						
Wages and salaries per head	£	646	933	584	823	592	827	543	789	560	811
	{ operatives	"	"	"	"	952	1,281	915	1,216	916	1,265
	{ other employees (g)	"	"	"	"						
Capital expenditure (h)											
New building work	£'000	166	715	769	835	571	271	675	1,377	2,181	3,197
Land and existing buildings	"										
	{ acquisitions	"	"	"	"						
	{ disposals	"	"	"	"	102(i)	-	310	637	560	976
		68	105	40	234		1	116	461	217	503
		(i)	8	61	34						
Plant and machinery	"	591	2,744	2,543	5,490	491	544	3,239	7,368	6,864	16,146
	{ acquisitions	"	"	"	"	7	35	418	1,014	698	1,395
	{ disposals	"	"	"	"						
Vehicles	"	72	252	144	355	52	64	481	1,074	749	1,744
	{ acquisitions	"	"	"	"	17	44	161	430	238	683
	{ disposals	"	"	"	"						

For footnotes to this table - see page 149/5.

TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
04 Components, accessories and semi-manufactured goods, wholly or mainly of plastics		£'000	Thousands	£'000	Number	Number
Radio, gramophone and television cabinets and lids			{ 375 ..	{ 277 1,063	{ 17	{ 17
Other radio and television components (eg valve bases and holders, knobs, dials, printed circuit boards)	..	3,724	..	3,829	77	83
Wire and cable coverings and sleeves		(b)	..	1,989	22	23
Refrigerator cabinets, linings and components	..	1,849	..	2,868	49	54
Air conditioning and space heating components		(b)	..	1,186	40	44
Washing machine components and accessories	..	1,387	..	2,024	53	61
Photographic and cinematographic apparatus and accessories (excluding lenses)	..	311	..	698	46	48
Components for optical, medical, dental and surgical instruments, and for clocks or scientific instruments (excluding lenses)	..	1,426	..	2,145	74	77
Components and accessories specifically for motor vehicles, cycles and other road vehicles						
Internal fittings (eg fascias and instrument panels, dials, knobs and gauges, roof and panel linings but excluding upholstery and foam)			..	10,750	96	103
Electrical fittings (eg light bulb holders, light shields, reflectors, capacitor and distributor parts)	..	7,220	..	3,787	61	65
Body and mechanical fittings (eg body and roof panels, boot lids, door handles, brake and clutch linings, gaskets, wind shields, water hose and mudguards)			..	4,008	70	72
Components and accessories specifically for aircraft (including radomes and airframe brackets)	..	2,114	..	2,589	51	54
Components and accessories specifically for ships		(b)	..	704	45	47
Components and accessories specifically for locomotives and railway stock		(b)	..	373	23	24
Textile industry accessories	..	588	..	2,705	59	60
Telephone and telecommunications instruments and parts thereof	..	1,803	..	4,322	75	80

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
04 Components, accessories and semi-manufactured goods, wholly or mainly of plastics (continued)		£'000		£'000	Number	Number
Parts for household equipment not elsewhere specified			..	3,596	71	76
Parts for industrial machinery not elsewhere specified			..	4,533	90	93
Parts for office machinery			..	1,753	59	62
Parts for agricultural machinery	..	(b)	..	531	41	42
Parts for boots and shoes						
Uppers and soles of plastics materials			..	966	12	12
Heels and heel tips of plastics materials			..	2,741	16	16
Electrical components, fittings and apparatus not elsewhere specified (other than insulating materials) (c)	..	7,160	..	8,304	105	109
Components, accessories and semi-manufactured goods not elsewhere specified (d)	..	14,396	..	16,596	164	178
Total components, accessories and semi-manufactured goods, wholly or mainly of plastics		41,979		84,334	..	..
Other goods wholly or mainly of plastics materials						
01 Building materials, etc						
Rainwater goods and fittings	..	1,377	..	5,627	28	30
Piping and fittings for water services	..	2,467(e)	..	5,612	24	24
Other piping (drainage, effluent, etc) and fittings	..	821	..	9,453	34	38
Doors, door frames, window frames, etc	..	629	..	562	9	9
Windows, roofing and roofing sheet (f)	..	862	..	2,128	25	25
Sheets, tiles and blocks for heat and sound insulation		(b)	..	3,700	17	17
Builders' hardware (eg bathroom fittings, door furniture, sanitary ware, handles, knobs, etc, but excluding electrical fittings)						
Sinks, basins and baths	..	7,813(e)	..	1,227	23	23
Other			..	9,934	91	95
Total building materials		13,968		38,243	..	..
04 Domestic, catering and furnishing goods						
Lamp shades and reflectors and parts thereof (other than for motor vehicles and cycles)	..	1,687	..	2,026	28	29
Furniture and parts thereof	..	1,494	..	2,000	47	48
Tableware (cups, saucers, plates, egg cups etc, including picnic ware, but excluding disposable hardware) (g)	..	1,571	..	2,124	43	45

Continued on next page.

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
Other goods wholly or mainly of plastics materials (continued)		£'000		£'000		
04 Domestic, catering and furnishing goods (continued)						
Hollow-ware and hardware, other than tableware						
Washing-up bowls, other bowls, colanders and sink tidies	}	5,801	..	1,107	25	26
Buckets			..	592	18	18
Watering cans and jugs			..	439	14	14
Dustbins, refuse bins and pedal bins			..	1,364	21	21
Disposable hardware			..	4,153	10	10
Other hollow-ware and hardware			..	5,821	42	44
Carpet sweepers and shampoo equipment			}	(b)	..	1,399	13	15
Curtain runners, rails, brackets and hooks, pelmets, blinds and acorns	..	2,200			20	20
Other domestic, catering and furnishing goods not elsewhere specified	..	5,837	..	8,025	87	91
Total domestic catering and furnishing goods		16,390		31,250	..	..
04 Toilet requisites	Thousands		Thousands			
Haircombs	17,937	232	18,269	186	}	15
Powder compacts and parts thereof	..	705	..	382		
Other toilet requisites (excluding toilet brushes and containers for packaging toilet preparations)	..	284	..	295	14	14
04 Artificial teeth, crowns and facings (h)	..	1,318	..	2,040	28	30
04 All other dental goods	..	680	54,509	799	9	9
04 Other appliances (including trusses, artificial limbs and eyes but excluding surgical boots)	..	(b)	..	451	17	17
04 Haberdashery and accessories and components (including slide and zip fasteners but excluding buttons and button moulds)	..	(i)	..	535	15	16
04 Other fancy goods not elsewhere specified excluding small cases of all kinds (j)	..	1,020	..	3,702	27	28
04 Heavy tanks and containers (eg industrial and chemical storage tanks and silos) (k)	..	824	..	1,631	48	48
04 Display and advertising novelties and decorations	..	734	..	876	24	24
04 Road traffic signs, name signs, advertising, display and exhibition signs and stands	..	950(l)	..	2,673	57	58
04 Insulating materials and adhesive cloth and tapes, including filmic, (other than for medical and surgical dressings and building materials) (m)	..	(b)	..	2,781	52	52
04 Smokers' requisites	..	4,828	..	3,241	23	27
	..	135	..	211	22	22

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
Other goods wholly or mainly of plastics materials (continued)		£'000		£'000		
02 Packaging materials (excluding transparent regenerated cellulose film and manufactures thereof)						
Bottles						
Of polyethylene	}	17,719(n)	..	11,432	19	21
Of polyvinyl chloride			..	799	5	6
Of polystyrene			..	466	9	9
Of other plastics materials			..	830	10	11
Pots, jars and rigid tubes			..	2,635	20	25
Large containers (with a capacity exceeding 1 gallon)			..	3,145	24	25
Caps and closures			..	10,357	59	66
Packs, sachets and cartons	..	3,084	29	31		
Reusable crates (including bottle crates)	..	2,168	13	14		
Bags, sacks, wrappers etc. and foamed packaging materials						
Bags and sacks	}	11,820(o)	..	14,418	32	33
Up to 500 gauge			..	4,684	11	11
Other	..	491	*	*		
Non-woven	}	1,126	..	6,476	26	26
Woven			..	682	*	*
Wrappers etc. and foamed packaging materials	..	1,289	..	2,289	6	6
Cellular foam	..	(b)	..	11,098	53	61
Laminated packaging materials (including laminates of metal foil and paper) not elsewhere specified			
Other packaging materials of plastics not elsewhere specified (including collapsible flexible tubes)			
Total packaging materials (excluding transparent regenerated cellulose film and manufactures thereof)		31,954		75,053	..	..
03 Manufactures of plastic foams (other than packaging)						
Uncovered upholstery and foam specifically for motor vehicles	}	12,299(p)	..	7,716	16	19
Plastic foam blocks, sheets and profile shapes for upholstery, bedding and cushions (other than for motor vehicles)			..	8,643	24	29
Underlay for carpets and rugs			..	1,451	10	10
Other manufactures of plastic foams (excluding fully finished mattresses and bolsters, pillows and cushions)	3,060	22	22
Total manufactures of plastic foams (other than packaging)		12,299		20,870	..	..
04 Other and unclassified goods wholly or mainly of plastics materials (including articles manufactured wholly or mainly of plastic film and resin bonded glass fibre mouldings)	..	15,282	..	18,445	175	183

Continued on next page.

TABLE 5 (continued)

Industry sub-division (a)	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
Other products	..	£'000 1,981	..	£'000 2,251	46	49
Waste products	..	345	..	514	96	116
Work done other than coating of metal		674		595	31	32
Total		146,583		291,360	..	..
Sales in other industries (see Table 6)		30,717		40,533	..	..
Principal products of this industry sold by establishments in the industry		115,866		250,827	472	541(q)

(a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger establishments, not merely sales by establishments classified to the sub-division.

(b) Not separately recorded for 1963.

(c) Excluding wiring accessories up to 250 volts, 30 amps (eg lampholders, ceiling roses, wall plugs and sockets, switches, etc) of plastics which are included in Table 7, being principal products of the Miscellaneous Electrical Goods Industry (Part 79).

(d) For 1963 described as 'Components and accessories not elsewhere specified (for industrial, office and transport machinery and equipment, and other goods)'.
(e) Revised figure.

(f) For 1963 described as 'Window, roof lights, etc'.

(g) For 1963 'Disposable hardware' was not specifically excluded.

(h) For 1963 included artificial teeth, crowns and facings, other than wholly or mainly of plastics, which are principal products of the Surgical Instruments and Appliances Industry (Part 69).

(i) For 1963 separate details were not collected in respect of appliances made wholly or mainly of plastics materials. Details of total production recorded for 1963 are included in the Report on the Surgical Instruments and Appliances Industry (Part 69).

(j) For 1963 described as 'Fancy articles, etc'.

(k) For 1963 described as 'Heavy reinforced plastics tanks and containers'.

(l) For 1963 described as 'Display and advertising novelties (other than display and exhibition stands and show cases)'.

(m) For 1963 'For building materials' was not specifically excluded.

(n) For 1963 this amount was made up as follows:

	£'000
Moulded and fabricated packs and containers (caps and closures, bottles and jars)	
Wholly or mainly of polyethylene	8,697
Polystyrene	3,361
Other	5,661

(o) For 1963 this amount was made up as follows:

Bags, wrappers, etc and foamed packing materials	
Wholly or mainly of polyethylene and polypropylene and co-polymers	10,364
Other (whether or not laminated but excluding laminates to metal foil or paper)	1,456

(p) For 1963 this amount was made up as follows:

Manufactures of plastic foams not elsewhere specified (polyurethane foams, etc) (other than foams for use as packaging materials and insulation for refrigerators, mattresses and cot mattresses)	
Bolsters, pillows, upholstery and cushioning	4,543
Other manufactures of plastic foams	7,756

(q) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments in Table 4 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963		1968			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
Components, accessories and semi-manufactured goods, wholly or mainly of plastics		£'000		£'000	Number	
Components and accessories specifically for motor vehicles, cycles and other road vehicles	..	1,338	..	661	7	34,66,79,144
Other components and accessories and semi-manufactured goods	..	3,415	..	5,372	43	(b)
Other goods wholly or mainly of plastics materials						
Building materials, etc						
Windows, roofing and roofing sheet			..	209	*	145
Builders' hardware etc	..	2,980	..	1,382	7	46,97,144,145
Other building materials			..	2,712	9	40,66,145
Domestic, catering and furnishing goods						
Tableware (cups, saucers, plates, egg cups etc, including picnic ware, but excluding disposable hardware)			..	872	7	79,96,141,147
Hollow-ware and hardware, other than tableware	..	2,184	..	771	6	96,138,141,144
Carpet sweepers and shampoo equipment			..	210	*	63,146
Other domestic, catering and furnishing goods			..	1,192	22	(b)
Toilet requisities (excluding toilet brushes and containers for packaging toilet preparations)	..	502	..	414	5	78,97,146
Artificial teeth, crowns and facings	-	-	Thousands 20.0	293	*	69
All other dental goods			..	347	5	42,69
Other appliances (including trusses, artificial limbs and eyes but excluding surgical boots)			(c)	466	12	30,69
Haberdashery and other fancy goods (excluding small cases of all kinds)	..	1,239	..	3,339	24	97,107,150
Road traffic signs, namesigns, advertising, display and exhibition signs and stands			(c)	425	11	97,144
Insulating materials and adhesive cloth and tapes, including filmic, (other than for medical and surgical dressings and building materials)	..	3,114	..	1,900	9	34,72,111,144
Packaging materials (excluding transparent regenerated cellulose film and manufactures thereof)						
Containers, caps and closures, bottles, rigid tubes, pots, jars and re-usable crates (including bottlecrates)	..	759	..	801	14	56,97,127
Packs, satchets and cartons			(c)	324	5	82,138,144,148
Bags and sacks	..	2,414	..	1,644	11	137,139,140
Wrappers etc and foamed packaging materials			..	600	10	92,139,140
Other packaging materials of plastics not elsewhere specified			(c)	1,652	12	139,140,147

Continued on next page.

TABLE 6 (continued)

	1963		1968			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
Other goods wholly or mainly of plastics materials (continued)		£'000		£'000	Number	
Manufactures of plastic foams (other than packaging)						
Plastic foam blocks, sheets and profile shapes for upholstery, bedding and cushions (other than for motor vehicles)	..	4,250	..	2,298	10	132,133,144
Underlay for carpets and rugs			..	1,347	*	34,106,144,145
Other manufactures of plastic foams (including uncovered upholstery and foam specifically for motor vehicles but excluding fully finished mattresses and bolsters, pillows and cushions)			..	2,693	11	34,144,145
Other and unclassified goods wholly or mainly of plastics materials (including articles manufactured wholly or mainly of plastic film and resin bonded glass fibre mouldings)	..	8,523	..	8,610	97	(b)
Total		30,717		40,533	..	..

(a) The references given are to the lists of industries at the front of this report.

(b) Production is widely distributed.

(c) Not separately recorded for 1963.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	1963	1968
	Value	Value
	£'000	£'000
Synthetic resins and plastics materials	3,501	6,389
Manufactures of aluminium and aluminium alloys	-	198
Machinery parts and other engineering products	1,357	346
Optical, surgical, scientific and industrial instruments and appliances	348	351
Wiring accessories, up to 250 volts, 30 amps, mainly of plastics	898	639
Other electrical apparatus and fittings	559	350
Miscellaneous metal goods including hollow-ware and smallware	1,480	1,646
Leather (tanned and dressed) and leather goods	492	538
Clothing and footwear	547	548
Manufactures of glass	210	309
Bedding manufactured from plastic foam	81	615
Furniture and other manufactures of wood	301	642
Manufactures of paper and board	853	1,568
Manufactures of rubber; and coating of metal with rubber or plastics (including dip coating of pipes, wire, etc)	2,023	1,455
Toilet brushes (including tooth and dental brushes, hair, nail and cosmetic brushes)	725	636
Toys and games	1,231	2,175
Sports equipment	381	429
Stationery goods and parts thereof (including pens and pencils wholly or mainly of plastics) office machinery requisites, writing inks (including concentrates)	398	642
Buttons and button moulds (other than of metal or glass)	193	250
Other goods	3,385	2,712
Services rendered to other organisations (a)	856	1,171
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	9,167	18,229
Canteen takings	442	636
Total	29,427	42,476

(a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968

This table is not applicable to this industry.

TABLE 9 Purchases by larger establishments of selected principal products of the industry, 1968

This table is not applicable to this industry.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968
Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production		£'000		£'000
Pigments and earth colours (including lithopone, zinc oxide, titanium dioxide, but excluding blacks, mineral and carbon) (a)	..	257	..	690
Dyestuffs	..	160	..	226
General chemicals				
Inorganic (including inorganic gases)			..	606
Organic (including organic gases)				
Isocyanates and saturated polyesters			..	2,309
Other organic chemicals	..	5,781(b)	..	1,376
Other (eg mixtures of inorganic and organic chemicals)				
Plasticisers, unmixed or mixed			..	880
Other			..	1,125
Synthetic resins and plastics materials (excluding leathercloth) (c)	Th.cwt.		Th.cwt.	
Acrylics: moulding and extrusion compounds, cast sheet, rod and tubes; solutions, emulsions and dispersions (d)	{ 77.9 ..	{ 1,524 401	{ 70.0 ..	{ 1,541 2,230
Polyethylene polymers and copolymers				
Granules, moulding and extrusion compounds				
Low density			2,540	16,275
High density			619	5,485
Sheet, rod, film, profile shapes and monofilament	{ 1,290 ..	{ 12,144 526 (e)	{ 134 ..	{ 1,886 712
Polypropylene polymers and copolymers				
Granules, moulding and extrusion compounds			596	6,086
Film			15.3	568
Sheet, rod, profile shapes and monofilament			{ 38.6 ..	{ 399 132
Polyvinyl chloride and copolymers				
Polymers and copolymers, including the net resin content of latices; solutions and dispersions, excluding latices (net resin content excluding plasticisers) (f)	162	1,460	959	6,095
Plasticised moulding and extrusion compounds (g)	261	2,185	{ 363 ..	{ 3,285 422
Plasticised unsupported sheet and film not printed or embossed ie non-decorative (h)	{ 28.4 ..	{ 533 396	{ 30.3 ..	{ 462 871
Unplasticised film	{ 11.8 ..	{ 228 367 (i)	{ 31.6 ..	{ 611 199
Rigid sheet, rod, tube and profile shapes	{ ..	{ ..	{ 12.4 ..	{ 309 275
Styrene polymers and copolymers (j)				
Resins		(k)	{ 58.9 ..	{ 702 266
Moulding and extrusion compounds (l)	{ 406 ..	{ 3,906 483	{ 1,037	{ 7,948
Sheet and film (m)	35.2	581	{ 50.0 ..	{ 884 483
Foam (including expandable beads), solutions, emulsions and dispersions (n)	{ 18.9 ..	{ 420 558	{ ..	{ 1,899

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)	Th.cwt.	£'000	Th.cwt.	£'000
Synthetic resins and plastics materials (excluding leathercloth) (continued)				
A.B.S. (acrylonitrile-butadiene-styrene) polymers				
Moulding and extrusion compounds	{ ..	{ (k)	{ 133	{ 2,180
Sheet			{ 13.4	{ 285
Cellulose plastics (o)			{ ..	{ 76
Cellulose ester and ether sheet, film, foil, rod, tube and profile shapes	{ 22.4	{ 559	{ 5.1	{ 170
Cellulose ester moulding and extrusion compounds	{ ..	{ 27	{ ..	{ 74
Transparent regenerated cellulose film in sheets or rolls	{ ..	{ (k)	{ ..	{ 469
Epoxide resins (p)	{ 16.9 ..	{ 247 374	{ 3.3 ..	{ 65 176
Phenolics and allied products (q)				
Resins (straight and modified), solutions, emulsions and dispersions	..	(k)	23.5	220
Moulding and extrusion compounds	..	2,338	{ 271	{ 2,571
Polyamides (moulding and extrusion compounds and plastics monofilament over 10 thous) (r)	{ 17.0 ..	{ 680 169	{ ..	{ 342
Aminoplastics (melamine and urea formaldehyde); solid and liquid resins and solutions (actual weight including solvents) and moulding and extrusion compounds	{ ..	{ 66.6	{ 1,786	
Laminated thermosetting sheet (excluding polyester laminates) (s)	190	1,831	165	1,623
Decorative	{ 6.7	{ 144	{ 13.5	{ 287
Other	{ ..	{ 77	{ ..	{ 760
Other thermoplastics materials not elsewhere specified (net resin content) including polyamides and polytetrafluoroethylene	{ 39.9	{ 764 (b)	{ 86.3	{ 2,376
Other thermosetting materials not elsewhere specified (net resin content)	{ ..	{ 309	{ 58.3	{ 945
Glass cloth or mat, asbestos cloth, fibres etc pre-impregnated with polyester, epoxide or other resin (u)	{ 2.5 ..	{ 51 14	{ 26.4 ..	{ 696 252
Fillers not elsewhere specified (eg wood flour, clay, asbestos fibre, textile waste)	..	85	..	227
Woven piece goods (other than narrow fabrics) wholly or mainly of	Th.sq.yds.		Th.sq.yds.	
Cotton (including cloth in the grey)	{ 1,009	{ 87	{ 3,839	{ 318
Jute (including hessian)	{ ..	{ 52	{ ..	{ 38
Synthetic fibres (nylon, etc)	{ 126	{ 28	{ 152	{ 30
Other man-made fibres (rayon, etc)	{ ..	{ 32	{ ..	{ 54
Glass fibre fabrics, rovings and chopped strand	{ 163	{ 20	{ 256	{ 53
Metal parts and inserts	{ ..	{ 41	{ ..	{ 10
Lubricating oils and greases	{ ..	{ 629	{ ..	{ 756
Th.gal.	136	37	Th.gal.	415
Th.cwt.	0.9	2	Th.cwt.	1.3
..	..	27	..	47

Continued on next page.

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)		£'000		£'000
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement				
Tyres and other spare parts for firms' own road goods vehicles	..	1,680	..	197
Other			..	3,064
All other materials for use in production	..	15,614	..	21,180
Packaging materials				
Paper and board				
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard	..	1,749	..	3,042
Fibreboard packing cases			..	492
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal) (v)	..	338	..	522
Transparent regenerated cellulose film in sheets or rolls (w)	..	76	..	61
Plastics				
Film (up to 0.01 inches thick)				
Of polyethylene	..	60	..	158
Of other plastics materials		(x)	..	95
Sheets and sheeting (thicker than 0.01 inches)			..	96
All other packaging materials	..	158	..	741
Fuel and electricity (y)	Th. tons		Th. tons	
Coal	35.0	137	16.7	92
Coke (including screenings) and manufactured fuel	4.5	43	1.9	19
	..	16	..	8
Derv fuel and motor spirit for use in road vehicles	Th. gal.		Th. gal.	
	1,053	218	1,964	533
	..	40	..	118
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	7,663	325	11,062	525
	..	62	..	474(z)
Gas	Th. therms		Th. therms	
	2,438	160	3,239	274
	..	56	..	68
Electricity	Th. kWh		Th. kWh	
	248,526	1,510	528,299	3,670
	..	552	..	1,196
Total cost of materials and fuel		66,391		128,040
Goods purchased for merchanting		6,690		14,465
Canteen purchases		454		691
Total cost of purchases		73,535		143,196

(a) For 1963 'Blacks, mineral or carbon' were specifically included.

(b) For 1963 described as 'Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc, including isocyanates and saturated polyesters (and polyethers) for polyurethane foams)'.
(c) For 1963 'Reinforced plastics' were specifically excluded.(d) For 1963 described as 'Acrylics (including sheet and moulding powder)'.
(e) For 1963 this amount was made up as follows:

	Th.cwt.	£'000
Polyethylene and polypropylene and co-polymers		
Granules, moulding and extrusion compounds	1,234	11,315
Sheet, rod, film, foil, profile shapes and monofilament	56.0	828
	..	526

Continued on next page.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	Unit	1963	1968
Average number mainly employed on transport	No.	648	1,216
Transport costs			
Wages and salaries	£'000	499	1,287
Derv fuel and motor spirit	"	258	651
Tyres and other spare parts for road goods vehicles	"	..	197
Payments to other organisations for transport	"	1,754	4,102
by road			
by rail and other means excluding postal services			750
Costs of operating road goods vehicles			
Insurance	"	45	83
Vehicle licences	"	32	123
Depreciation	"	258	445
Payments to other organisations for repairs and maintenance	"	109	336
Total	"	2,955(a)	7,974

(a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

Footnotes continued from page 149/18.

(f) For 1963 described as 'Resins, solutions, emulsions, dispersions'.

(g) For 1963 described as 'Moulding and extrusion compounds'.

(h) For 1963 described as 'Plasticised sheet'.

(i) For 1963 described as 'Unplasticised sheet, film, rod, foil, tube, profile shapes and foam'.

(j) For 1963 described as 'Polystyrene'.

(k) Not separately recorded for 1963.

(l) For 1963 expandable beads were specifically excluded.

(m) For 1963 described as 'Sheet, film, tape and foil'.

(n) For 1963 solutions, emulsions and dispersions were not included.

(o) For 1963 described as 'Cellulose acetate and nitrate'.

(p) For 1963 this item was described as 'Unsaturated polyesters and epoxide resins', and may include some 'Styrene polymers and copolymers'.

(q) For 1963 described as 'Phenolics and cresylics'.

(r) For 1963 described as 'Polyamides (including moulding powders and monofilament but excluding continuous filament yarn)'.
(s) For 1963 described as 'Phenolics and cresylics: decorative and other laminated sheet, cast sheet, laminated or cast rod, tube and profile shapes'.

(t) For 1963 described as 'Other polymers and co-polymers, moulding and extrusion compounds, etc'.

(u) For 1963 described as 'Glass cloth or mat pre-impregnated with polyester or epoxide resins'.

(v) For 1963 moulded pulp units, labels and other packaging materials of paper, cardboard and fibreboard (except multiwall sacks) were specifically excluded.

(w) For 1963 included bags.

(x) For 1963 described as 'Sheet, films, foams, etc, (including bags)'.
(y) The total quantity of electricity generated in establishments employing 25 or more persons in this industry was 1,000 Th.kWh in 1963. Owing to the risk of disclosure of information relating to individual firms, separate figures for 1968 cannot be given.

(z) For 1968 may include a small amount of fuels not covered by specific headings.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

	Amounts payable	
	1963	1968
Repairs and maintenance to	£'000	£'000
Buildings	260	548
Road goods vehicles	109	336
Plant, machinery and other capital equipment	790	2,457
Insurance, licensing and depreciation of road goods vehicles (b)	335	651
Rates, excluding water rates	939	2,082
Hire of plant and machinery	110	522
Postage, telephone, telegrams, cables and telex (c)	691	1,435
Total	3,234	8,031

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) For details see Table 11.

(c) Excluding Telex for 1963.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed
1968	Per cent.	Per cent.
April (a)	3.0	2.3
May	1.8	0.7
June	6.5	4.3
July	3.1	2.3
August	1.8	1.5
September	6.7	7.9
October	4.3	4.5
November	2.0	1.8
December	43.3	49.7
1969		
January	2.6	1.6
February	1.8	1.4
March	19.8	18.4
April (b)	3.3	3.6
	100	100

(a) From 6 April.

(b) To 5 April.