

Table OR1.1 - Demand for products at time $t=1$ at each location ($D_{i,l,1}$) (adapted from Brazilian Chemical Industry Association 2012; Brazil 2025a)

Product	AL ton/year	AM ton/year	BA ton/year	CE ton/year	DF ton/year	ES ton/year	GO ton/year	MA ton/year	MT ton/year	MS ton/year	MG ton/year	PA ton/year	PB ton/year	PR ton/year	PE ton/year	PI ton/year	RJ ton/year	RS ton/year	RO ton/year	RR ton/year	SC ton/year	SP ton/year	SE ton/year	TO ton/year
Acrylic fibers (polyacrylonitrile - PAN)	184	360	314	0	20	5970	290	2202	0	10	0	6006	580	4198	413	0	403	136	0	0	2197	20992	122	0
Butyl rubber	0	224	0	0	0	283	0	0	0	0	0	0	0	28	0	0	618	0	0	0	735	935	0	0
Epoxy resin (liquid)	0	11669	0	39	0	1060	32	0	29	0	0	0	0	331	1850	0	147	0	65	0	2293	8106	0	0
Epoxy resin (solid)	0	4077	0	13	0	370	13	0	10	0	0	0	0	114	608	0	54	0	23	0	801	3001	0	0
Ethylene-propylene-diene (EPDM) rubber	0	359	0	0	0	453	0	0	0	0	0	0	0	45	0	0	606	24968	0	0	1177	7021	0	0
Melamine-formaldehyde (molding compound)	0	69	10	0	0	91	0	0	0	0	0	0	0	733	0	0	0	72	0	0	408	507	0	0
Nitrile rubber	0	343	0	0	0	433	0	0	0	0	0	0	0	43	0	0	34893	0	0	0	1123	289	0	0
Nylon 6 (chips)	61	3512	267	0	22	1913	0	0	0	0	0	0	0	2375	0	0	3913	0	0	0	5629	16446	0	0
Phenol-formaldehyde (molding powder)	0	170	24	2814	0	200	22	0	0	0	0	0	22	35919	0	0	1818	154	0	0	1007	51404	0	0
Polyacrylate (pellets)	224	439	383	0	24	7273	353	2683	0	0	0	7316	706	5127	640	0	514	166	0	0	4716	38936	149	0
Polybutadiene	0	4668	29	0	0	5941	18	0	79	0	0	0	29	499	64000	0	12741	0	0	0	15451	14212	0	0
Polybutylene terephthalate (PBT)	0	4060	0	13	0	369	12	0	10	0	0	0	0	115	669	0	54	0	23	0	798	2997	0	0
Polycarbonate	0	15896	15005	48	0	1444	49	0	40	0	0	0	0	450	4143	0	214	0	89	0	3123	11940	0	0
Polychloroprene (neoprene)	0	523	0	0	0	658	0	0	11	0	0	0	0	55	0	0	1129	0	0	0	1712	4719	0	0
Polyether polyol (glycerine-based triol)	17	47137	0	142	11	4281	131	0	119	0	0	0	0	1318	11338	0	632	19	264	0	9262	35277	0	0
Polyethylene (high-density)	1103	16933	189748	0	28	9717	0	0	98	497	38	669	1886	9905	100	85	192589	190077	0	12	169380	70371	0	0
Polyethylene (low density)	1654	25399	284622	0	42	14576	0	0	147	745	57	1003	2829	14857	150	128	288883	285116	0	19	254071	105556	0	0
Polyethylene glycol	16	18648	116	53	0	1964	32	68	47	29	56	16	0	497	17535	0	1415	30	98	12	5330	105507	0	0
Polyethylene terephthalate (PET)	77	240511	0	726	56	21848	592	0	607	48	10	0	0	6682	31274	0	3017	97	1350	0	47270	168009	0	0
Polyisobutylenes	0	169	0	0	0	95	0	0	0	186	16	0	0	1934	0	0	5336	0	0	0	943	125	3	0
Polymethyl methacrylate (pellets)	0	340	262	0	29	69	0	0	0	24	643	0	52	369	546	0	454	22	0	0	525	270	0	0
Polypropylene	226	25445	339160	0	35	14865	18	0	0	8710	2527	0	964	84127	0	76	80740	340393	0	0	148050	345871	540	0
Polypropylene glycol	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	25	10068	0	0
Polystyrene (crystal grade)	35	1562	91929	0	0	505	0	0	0	6	0	0	0	1842	0	0	91935	91869	0	0	2174	91539	0	0
Polystyrene (expandable beads)	153	16584	419	0	0	2489	24	0	0	0	0	0	12	1470	10	10	604	119	0	0	24054	47118	0	0
Polyurethane flexible foam	0	6121	0	43	19	715	96	0	18	0	10	0	0	772	3722	0	256	35	43	0	1333	4300	0	0
Polyvinyl butyral	52	1075	112	0	56	387	55	0	0	86	267	0	144	1728	223	0	29	63	0	0	1796	2527	0	0
Polyvinyl chloride (PVC) (general purpose)	284142	11723	244808	215	0	11488	0	0	0	0	0	0	0	11780	15415	0	1711	75	2425	0	239993	327082	406	10790

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Styrene-acrylonitrile (SAN)	36	3904	100	0	0	591	0	0	0	0	0	0	0	347	0	0	142	33	0	0	2546	1319	0	0
Styrene-butadiene rubber (SBR)	0	3547	22	0	0	4514	14	0	60	0	0	0	22	377	48304	0	55934	48306	0	0	11742	34809	0	0
Styrene-butadiene rubber (latex)	0	5000	30	0	0	6362	19	0	84	0	0	0	32	531	0	0	9980	0	0	0	16552	66291	0	0
Unsaturated polyester (general purpose)	0	1826	13363	0	22	187	0	0	0	11	218	0	27	2653	5799	0	134	12	11	0	599	83204	0	0
Urea-formaldehyde (molding compound)	0	53	0	797	0	69	0	0	0	0	84246	0	0	284926	0	0	840	48	0	0	313	124357	0	0
Vinyl acetate/ethylene copolymer (latex)	79	1223	23628	0	0	707	0	0	0	35	0	48	136	709	0	0	191	23645	0	0	10909	6529	0	0
Vinyl acetate/vinyl chloride copolymer	427	92	0	0	0	122	0	0	0	0	0	0	0	125	164	0	18	0	26	0	2558	808	0	115
Vinylidene chloride/vinyl chloride copolymer	404	125	0	0	0	116	0	0	0	0	0	0	0	119	156	0	17	0	25	0	2428	1311	0	109