

POLYSTYRENE PORTFOLIO

CRYSTAL AND HIGH IMPACT POLYSTYRENE GRADES



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POLYSTYRENE PRODUCT SELECTION GUIDE

CRYSTAL POLYSTYRENE GRADES

	Product	Melt flow rate (g/10 min)	Vicat softening temperature (°F)	Tensile strength at yield (psi)	Available with external lube	Key attributes	Recommended applications
High heat crystal resins	1200/ 1201	1.6	228	7,600	Yes	High molecular weight & strength; excellent clarity	Direct injection foam; biaxially oriented sheet; glazing sheet
	1290/ 1291	1.6	228	7,600	Yes	Low residual styrene monomer; low oligomers	Direct injection foam; biaxially oriented sheet; glazing sheet
	1300/ 1301	3	223	7,100	Yes	High heat resistance & strength	Electronics packaging & labware; cosmetic cases
	1611	6	222	6,800	Yes	Good balance of flow, strength & set-up; blue edge effect	Consumer electronics; housewares; cosmetic packaging
	1621	6	223	6,800	Yes	Good balance of flow, strength & set-up	Consumer electronics; housewares; cosmetic packaging
	1700	11	223	5,700	No	High flow & heat resistance; no zinc stearate	Foam extrusion
General purpose crystal resins	2600/ 2601	3.4	205	6,400	Yes	Good balance strength & ease of processing; white color	Extrusion & thermoforming; injection molded parts; retail displays
	2610	3.6	208	6,000	No	Good balance of flow & set-up properties	Appliance parts; blending; thermoforming & extruded parts
	3100/ 3101	10	213	6,500	Yes	Good balance of flow & set-up properties	Single use foodservices; electronics pkg; HIPS gloss cap
	3190/ 3191	10	213	6,500	Yes	Low residual styrene monomer; white color; high clarity	Single use foodservice; great for blending
	3600/ 3601	14	209	6,200	Yes	Excellent flow characteristics for thin wall and complex parts	Thin wall, multi-cavity molding applications; masterbatches

HIGH IMPACT POLYSTYRENE GRADES

	Product	Melt flow rate (g/10 min)	Vicat softening temperature (°F)	Notched izod (ft.-lb/ inch)	Specular gloss (60°) (%)	Key attributes	Recommended applications
High impact resins	5300	2.6	214	2.2	15	Excellent ESCR & good toughness; low gloss; no zinc stearate	Food packaging; indoor signs; retail displays; printed materials
	5310	2.4	217	2.1	15	Excellent ESCR & good toughness; low gloss	Food packaging; indoor signs; retail displays; printed materials
	5400/ 5401	3	212	2.6	25	Good balance of ESCR & toughness; low gloss	Cosmetic, foodservice, retail & medical packaging
	5410	3	210	2.8	15	Good printability; good ESCR; low gloss	Retail & other signs; medical & cosmetic packaging
	5600/ 5601	8	208	2.8	45	Great balance of toughness & rigidity in injection molded parts	Electronics housings; houseware; appliance parts
	5801	14.5	199	3	55	Excellent processibility; high toughness	Thin wall, multi-cavity molding applications; masterbatches
	6210	2.9	214	2.8	60	Great balance of toughness & rigidity	Single use foodservice; profile extrusion; portion containers
	6220	3	210	3.8	90	Excellent toughness; designed for deep draw thermoforming; high gloss	Deep draw drink cups & containers; signs; packaging
Refrigeration impact resins	6230/ 6231	3.5	210	3.8	85	Excellent toughness; designed for deep draw thermoforming; high gloss	Deep draw drink cups & containers; signs; packaging
	7120	2.3	217	2.1	10	Great low temperature impact; ESCR to food	Refrigerator & freezer liners; picnic cooler liners
	7800	3.6	214	1.5	95	Superior gloss; good processibility	Co-extruded high gloss cap layer for durable goods