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TABRIZ PETROCHEMICAL COMPANY

HIGH IMPACT POLYSTYRENE HIPS 7240

HIPS 7240 is a high-impact polystyrene (HIPS) grade designed for extrusion and thermoforming, offering excellent impact resistance and melt strength for deep-draw applications. It is often blended with GPPS for customized properties and is widely used in packaging, disposable tableware, and industrial sheets, with food-contact compliance for safe packaging use.

Producer	Characteristic Properties	Applications
Tabriz Petrochemical Company	The good melt strength of this grade makes it particularly suited for deep-draw thermoforming	cups, trays, egg boxes, general packaging, co extrusion with GPPS at industrial sheets .Food container

Typical Properties

Resin Properties	Unit	Typical	Test Method
MELT FLOW INDEX(200°C-5KG)	g/10min	4.5	ASTM D 1238
STYRENE RESIDUAL MONOMER	ppm	<500	CLG LABPSG004
VICAT SOFTENING POINT(50 °C/hr 1kg)	°C	97	ASTM D-1525
HDT(120°C/HR AND 1.82MPa)	°C	80	ASTM D-648
ROCKWELL HARDNESS	-	92 R SCALE	ASTM D785
TENSILE STRESS AT YEILD	MPa	21	ASTM D638
TENSILE STRESS AT BREAK	Mpa	22	ASTM D638
ELONGATION AT BREAK	%	50	ASTM D638
TENSILE MODULUS	MPa	1950	ASTM D638
IZOD IMPACT(NOTCHED)	Kj/m ²	11	ISO180/1A
DENSITY	gr/cm ³	1.04	ASTM D-792
SHRINKAGE	%	0.55	ASTM D-955
YELLOWNESS INDEX	-	-3	ASTM E-313
WHITENESS INDEX	-	80	ASTM E-313