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TABRIZ PETROCHEMICAL COMPANY

GENERAL PURPOSE POLYSTYRENE - GPPS 1460

GPPS 1460 is a high-molecular-weight general purpose polystyrene grade produced by Tabriz Petrochemical Company for extrusion and injection molding applications. This crystal polystyrene offers excellent heat resistance, high mechanical strength, and food contact approval, making it suitable for demanding industrial applications. GPPS 1460 is particularly effective in thick-sheet extrusion and direct gas injection processes, where it produces expanded sheets with superior structural properties.

Producer	Applications
Tabriz Petrochemical Company	XPS insulation boards, foam sheets, food and fruit trays, thick-sheet extrusion, direct gas injection foaming, rigid packaging, and thick-walled injection-molded components requiring high heat resistance and excellent mechanical performance.

Typical Properties			
Resin Properties	Unit	Typical Value	Test Method
MELT FLOW INDEX (200°C-5KG)	g/10min	6.5	ASTM D-1238
STYRENE RESIDUAL MONOMER	PPM	<500	CLG LABPSG004
VICAT SOFTENING POINT (50 °C/hr 1kg)	°C	98	ASTM D-1525
HDT(120°C/HR AND 1.82MPa)	°C	80	ASTM D-648
TENSILE STRENGTH AT BREAK	MPa	45	ASTM D-638
ELONGATION AT BREAK	%	3	ASTM D-638
TENSILE MODULUS	MPa	4100	ASTM D-638
FLEXURAL MODULUS	MPa	3000	ASTM D-790
FLEXURAL STRENGTH	MPa	85	ASTM D-790
IZOD IMPACT(NOTCHED)	Kj/m2	1.9	ISO180/1A
ROCKWELL HARDNESS	-	M SCALE/ 71	ASTM D-785
HAZE	%	HB	ASTM D-1003
DENSITY	gr/cm3	1.04	ASTM D-792
SHRINKAGE	%	0.55	ASTM D-955