TABRIZ PETROCHEMICAL COMPANY

GENERAL PURPOSE POLYSTYRENE - GPPS 1160

GPPS 1160 is a high-performance general purpose polystyrene engineered for demanding applications requiring high heat resistance and superior mechanical strength. This high molecular weight crystalline polymer is optimized for the extrusion and bi-oriented polystyrene (OPS) industries. Its robust nature makes it the premier choice for producing thick, durable sheets and high-quality thermoformed products.

Producer	Applications
Tabriz Petrochemical Company	Its versatility makes it essential for extruding thick sheets for insulation, creating high-clarity OPS films, and producing thermoformed goods like foam packaging and transparent household items.

Typical Properties

Resin Properties	Unit	Typical Value	Test Method
MELT FLOW INDEX (200°C-5KG)	g/10min	2.5	ASTM D-1238
STYRENE RESIDUAL MONOMER	PPM	<500	CLG LABPSG004
VICAT SOFTENING POINT (50 °C/hr 1kg)	°C	103	ASTM D-1525
HDT(120°C/HR AND 1.82MPa)	°C	84	ASTM D-648
TENSILE STRENGTH AT BREAK	MPa	52	ASTM D-638
ELONGATION AT BREAK	%	3	ASTM D-638
TENSILE MODULUS	MPa	4300	ASTM D-638
FLEXURAL MODULUS	MPa	3100	ASTM D-790
FLEXURAL STRENGTH	MPa	90	ASTM D-790
IZOD IMPACT(NOTCHED)	Kj/m2	2.0	ISO180/1A
ROCKWELL HARDNESS	-	M SCALE/ 72	ASTM D-785
HAZE	%	1	ASTM D-1003
DENSITY	gr/cm3	1.04	ASTM D-792
SHRINKAGE	%	0.55	ASTM D-955