

## Iran Petrochemical (PCC) GPPS 1160 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Extrusion Grade

**Material Notes:**

GPPS 1160 is a high heat resistance, high molecular weight crystalline polystyrene used in the extrusion industry. It is most suitable for production of oriented polystyrene. It is particularly useful for production of thick sheet by direct gassing, where it gives expanded sheets with high mechanical properties. Applications: shower cabinets; lighting thin films; thermoforming, transparent cups, insulation board, foamed sheet. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Iran-Petrochemical-PCC-GPPS-1160-Polystyrene.php](http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-GPPS-1160-Polystyrene.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	
Moisture Absorption	<= 0.100 %	<= 0.100 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D570
Melt Flow	2.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	2.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.20 GPa	464 ksi	ASTM D638
Flexural Modulus	2.90 GPa	421 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	>= 101 Â°C	>= 214 Â°F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.591	1.591	ISO
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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