

## Iran Petrochemical (PCC) HIPS 8350 High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

### Material Notes:

HIPS 8350 is a very high impact polystyrene used in the extrusion industry. This grade has an improved environmental stress crack resistance (ESCR) in comparison with standard high impact polystyrene grades. It is recommended for the production of packaging intended for products likely to cause stress cracking. HIPS8350 retains good mechanical properties at low temperatures making this grade suitable for frozen food packaging and for the production of fridge liners in contact with HCFC expanded foam insulation. Applications: extrusion sheet for thermoforming, fridge doors and cabinet liners Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Iran-Petrochemical-PCC-HIPS-8350-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-HIPS-8350-High-Impact-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	4.5 g/10 min @Load 5.00 kg, Temperature 200 Å°C	4.5 g/10 min @Load 11.0 lb, Temperature 392 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	ASTM D638
Tensile Strength, Yield	18.0 MPa	2610 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	1.60 GPa	232 ksi	ASTM D638
Flexural Modulus	1.60 GPa	232 ksi	ASTM D790
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	ISO 180/1A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	>= 92.0 Å°C	>= 198 Å°F	ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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