

## Styrolution PS 576H HIPS

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

### Material Notes:

Styrolution PS 576H is a high gloss, high impact polystyrene with a good flow and good heat resistance. High gloss HIPS Good flow and heat resistance HIPS with good balance of mechanical properties and surface gloss Information provided by Styrolution

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styrolution-PS-576H-HIPS.php](http://www.lookpolymers.com/polymer_Styrolution-PS-576H-HIPS.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	<= 0.10 % @Temperature 23.0 Â°C	<= 0.10 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	<= 0.10 % @Temperature 23.0 Â°C	<= 0.10 % @Temperature 73.4 Â°F	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294-4
Melt Flow	5.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	5.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	83.0 MPa	12000 psi	ISO 2039-1
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527
Elongation at Break	30 %	30 %	ISO 527
Elongation at Yield	1.6 %	1.6 %	ISO 527
Tensile Modulus	2.05 GPa	297 ksi	ISO 527
Flexural Strength	44.0 MPa	6380 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 180/A
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup> @Temperature -30.0 Â°C	33.3 ft-lb/in <sup>2</sup> @Temperature -22.0 Â°F	ISO 179
	12.0 J/cm <sup>2</sup>		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	57.1 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179
Charpy Impact, Notched	1.30 J/cmÂ²	6.19 ft-lb/inÂ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	88.0 Â°C	190 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Â°C	172 Â°F	ISO 75
Vicat Softening Point	90.0 Â°C @Load 5.10 kg	194 Â°F @Load 11.2 lb	50Â°C/h; ISO 306
	98.0 Â°C @Load 1.02 kg	208 Â°F @Load 2.25 lb	50Â°C/h; ISO 306

Optical Properties	Metric	English	Comments
Gloss	70 %	70 %	Specular Gloss, 60Â°; ASTM D 523

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+18 ohm-cm	>= 1.00e+18 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	IEC 60093
Dielectric Constant	2.5 @Frequency 100 Hz	2.5 @Frequency 100 Hz	IEC 60250
Dielectric Strength	155 kV/mm @Thickness 1.50 mm	3940 kV/in @Thickness 0.0591 in	Short Time; IEC 60243-1
Dissipation Factor	0.00040 @Frequency 1.00e+6 Hz	0.00040 @Frequency 1.00e+6 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 Â°C	356 - 500 Â°F	ISO 294
Mold Temperature	10.0 - 60.0 Â°C	50.0 - 140 Â°F	ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

## **Contact Songhan Plastic Technology Co.,Ltd.**

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