

Styrolution PS 495F HIPS

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

Material Notes:

Styrolution PS 495F is a high flow, high impact polystyrene with a good heat resistance and a high stiffness. High flow HIPS Good heat resistance with high stiffness Suitable for gas-assisted injection molding process Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-495F-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	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	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ISO 294-4
Melt Flow	9.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	9.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	74.0 MPa	10700 psi	ISO 2039-1
Tensile Strength, Yield	26.0 MPa	3770 psi	ISO 527
Elongation at Break	40 %	40 %	ISO 527
Elongation at Yield	1.5 %	1.5 %	ISO 527
Tensile Modulus	2.00 GPa	290 ksi	ISO 527
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180/A
Charpy Impact Unnotched	13.0 J/cm ² @Temperature -30.0 Â°C	61.9 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179
	NB		

Mechanical Properties	Metric @ Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments
Charpy Impact, Notched	1.70 J/cmÂ²	8.09 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
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÂ²- Â°F	DIN 52612-1
Deflection Temperature at 0.46 MPa (66 psi)	89.0 Â°C	192 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	ISO 75
Vicat Softening Point	90.0 Â°C	194 Â°F	50Â°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	98.0 Â°C	208 Â°F	50Â°C/h; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Optical Properties	Metric	English	Comments
Gloss	45 %	45 %	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	2.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	155 kV/mm	3940 kV/in	Short Time; IEC 60243-1
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Dissipation Factor	0.00040	0.00040	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.00040	0.00040	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 Â°C	356 - 500 Â°F	ISO 294

Processing Properties	Metric	English	Comments
Mold Temperature	10.0 - 60.0 A°C	50.0 - 140 A°F	ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China