

Styrolution PS 147F GPPS

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

Material Notes:

Styrolution PS 147F is a highly transparent GPPS grade. It gives excellent mechanical and heat resistance properties while providing with easy processability and short cycle time. Medium Flow Easy processability Good mechanical and heat resistance properties Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-147F-GPPS.php

Physical Properties	Metric	English	Comments
Density	1.046 g/cc	0.03779 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	6.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	6.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa	21800 psi	ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	3.30 GPa	479 ksi	ISO 527
Flexural Strength	98.0 MPa	14200 psi	ISO 178
Charpy Impact Unnotched	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.0 Â°C	199 Â°F	ISO 75
Deflection Temperature at 1.8 MPa	85.0 Â°C	185 Â°F	ISO 75

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 Å°C	203 Å°F	50Å°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	100 Å°C	212 Å°F	50Å°C/h; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+18 ohm-cm	>= 1.00e+18 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	IEC 60093
Dielectric Constant	2.5	2.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.5	2.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	135 kV/mm	3430 kV/in	Short Time; IEC 60243-1
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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

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