

Styrolution PS 641F HIPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade , Polystyrene, Impact Modified

Material Notes:

Styrolution PS 641F is high impact polystyrene with high heat resistance. High impact High heat resistance Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-641F-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 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	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
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	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	90.0 MPa	13100 psi	ISO 2039-1
Tensile Strength, Yield	28.0 MPa	4060 psi	ISO 527
Elongation at Break	40 %	40 %	ISO 527
Elongation at Yield	1.7 %	1.7 %	ISO 527
Tensile Modulus	2.00 GPa	290 ksi	ISO 527
Flexural Strength	44.0 MPa	6380 psi	ISO 178
Charpy Impact Unnotched	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359
Thermal Conductivity	0.160 W/m-K	1.11 BTU-in/hr-ft ² - Â°F	DIN 52612-1

Thermal Properties	Metric	English	Comments
Vicat Softening Point	96.0 Â°C @Load 5.10 kg	205 Â°F @Load 11.2 lb	120Â°C/h; ASTM D 1525

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

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

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