

Styrolution PS 153F GPPS

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

Material Notes:

Styrolution PS 153F is general purpose polystyrene with high heat resistance and good flow properties. Styrolution PS 153F is free of internal lubricants, e.g. zinc stearate. Free of internal lubricants Good flow characteristics Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-153F-GPPS.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	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	7.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	7.5 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	45.0 MPa	6530 psi	ISO 527
Elongation at Yield	1.5 %	1.5 %	ISO 527
Tensile Modulus	3.05 GPa	442 ksi	ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Charpy Impact Unnotched	0.800 J/cm ²	3.81 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
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	ISO 75

Thermal Properties	Metric	English	Comments
Vicat Softening Point			120A °C/N, ASTM D 1525
	@Load 5.10 kg	@Load 11.2 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+18$ ohm-cm	$\geq 1.00\text{e}+18$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+13$ ohm	$\geq 1.00\text{e}+13$ ohm	IEC 60093

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 280 Â°C	356 - 536 Â°F	ISO 294

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