

Styrolution PS 168 N/L GPPS

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

Material Notes:

Styrolution PS 168N/L is a high molecular weight, heat resistant grade with high mechanical strength. It is suitable for physically or chemically expanded extruded sheet. It is also suitable for use as blend component with high impact polystyrene or Styrolux. High molecular weight High heat resistance High mechanical strength UL 94 HB (Antwerp only) Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-168-NL-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	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ISO 294-4
Melt Flow	1.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	1.5 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	59.0 MPa	8560 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	3.30 GPa	479 ksi	ISO 527
Flexural Strength	106 MPa	15400 psi	ISO 178
Charpy Impact Unnotched	<= 2.50 J/cm ²	<= 11.9 ft-lb/in ²	ISO 179
Tensile Creep Modulus, 1 hour	3300 MPa	479000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	2600 MPa	377000 psi	ISO 899

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.170 W/m-K	0.110 in/hr-ft ² - °F	ISO 52812-1
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	ISO 75
Vicat Softening Point	101 °C @Load 5.10 kg	214 °F @Load 11.2 lb	120°C/h; ASTM D 1525
	108 °C @Load 1.02 kg	226 °F @Load 2.25 lb	120°C/h; ASTM D 1525
Flammability, UL94	HB	HB	

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 @Frequency 100 Hz	2.5 @Frequency 100 Hz	IEC 60250
Dissipation Factor	0.000050 @Frequency 1.00e+6 Hz	0.000050 @Frequency 1.00e+6 Hz	IEC 60250
	0.000090 @Frequency 100 Hz	0.000090 @Frequency 100 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 280 °C	356 - 536 °F	ISO 294
Mold Temperature	40.0 °C	104 °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