

Styrolution PS 485N HIPS

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

Material Notes:

Styrolution PS 485N is a high impact grade of polystyrene for extruded sheets with a matte surface. Matte Surface UL 94 HB Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-485N-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	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294-4
Melt Flow	4.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	4.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 527
Elongation at Break	35 %	35 %	ISO 527
Elongation at Yield	1.6 %	1.6 %	ISO 527
Tensile Modulus	1.65 GPa	239 ksi	ISO 527
Flexural Strength	32.0 MPa	4640 psi	ISO 178
Charpy Impact Unnotched	1.00 J/cm ²	4.76 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	0.170 W/m-K	1.18 BTU-in/hr-ft ² - Â°F	DIN 52612-1
Vicat Softening Point	90.0 Â°C	194 Â°F	120Â°C/h; ASTM D 1525

Thermal Properties	@Load 5.10 kg Metric	@Load 11.2 lb English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{18}$ ohm-cm	$\geq 1.00 \times 10^{18}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	IEC 60093
Dielectric Constant	2.5	2.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.00040	0.00040	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.00040	0.00040	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 Å°C	356 - 500 Å°F	ISO 294
Mold Temperature	45.0 Å°C	113 Å°F	ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

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