

Styrolution PS 495N HIPS

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

Material Notes:

Styrolution PS 495N is an impact resistant polystyrene with a good balance of toughness, high flow, heat resistance and high gloss. High flow Good balance of toughness and heat resistance UL 94 HB Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-495N-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	9.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	9.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	74.0 MPa	10700 psi	ISO 2039-1
Tensile Strength, Yield	26.0 MPa	3770 psi	ISO 527
Elongation at Break	40 %	40 %	ISO 527
Elongation at Yield	1.5 %	1.5 %	ISO 527
Tensile Modulus	2.00 GPa	290 ksi	ISO 527
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Charpy Impact Unnotched	1.70 J/cm ²	8.09 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
	0.170 W/m-K	1.18 BTU-in/hr-ftÂ²-	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	89.0 Â°C	192 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	ISO 75
Vicat Softening Point	89.0 Â°C @Load 5.10 kg	192 Â°F @Load 11.2 lb	120Â°C/h; ASTM D 1525
	98.0 Â°C @Load 1.02 kg	208 Â°F @Load 2.25 lb	50Â°C/h; ISO 306

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
Dielectric Constant	2.5 @Frequency 100 Hz	2.5 @Frequency 100 Hz	IEC 60250
Dissipation Factor	0.00040 @Frequency 100 Hz	0.00040 @Frequency 100 Hz	IEC 60250
	0.00040 @Frequency 1.00e+6 Hz	0.00040 @Frequency 1.00e+6 Hz	IEC 60250

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

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