

Styrolution PS 486N HIPS

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

Material Notes:

Styrolution PS 486N is a normal flowing, high impact grade that is especially suitable for blends with a high proportion of general purpose polystyrene (preferably Styrolution PS 165N or Styrolution PS 158N for better heat resistance). It is suitable for all kinds of thermoformed packaging. Suitable for blending with high proportions of GPPSUL 94 HB. Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-486N-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
Ball Indentation Hardness	66.0 MPa	9570 psi	ISO 2039-1
Tensile Strength, Yield	24.0 MPa	3480 psi	ISO 527
Elongation at Break	35 %	35 %	ISO 527
Elongation at Yield	1.5 %	1.5 %	ISO 527
Tensile Modulus	1.80 GPa	261 ksi	ISO 527
Charpy Impact Unnotched	1.20 J/cm ²	5.71 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
Deflection Temperature at 0.46 MPa	83.0 Â°C	181 Â°F	

(56 psi) Thermal Properties	Metric	English	ISO 75 Comments
Deflection Temperature at 1.8 MPa (264 psi)	74.0 Â°C	165 Â°F	ISO 75
Vicat Softening Point	90.0 Â°C @Load 5.10 kg	194 Â°F @Load 11.2 lb	120Â°C/h; ASTM D 1525
	96.0 Â°C @Load 1.02 kg	205 Â°F @Load 2.25 lb	50Â°C/h; ISO 306
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+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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