

Styrolution PS 416N HIPS

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

Material Notes:

Styrolution PS 416N is medium impact polystyrene with very good flow properties. It has a high rigidity whilst displaying a very good surface gloss. Very good flow properties High rigidity Very good surface gloss Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-416N-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	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
Melt Flow	21 g/10 min @Load 5.00 kg, Temperature 200 Â°C	21 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527
Elongation at Break	35 %	35 %	ISO 527
Elongation at Yield	1.2 %	1.2 %	ISO 527
Tensile Modulus	2.60 GPa	377 ksi	ISO 527
Flexural Strength	46.0 MPa	6670 psi	ISO 178
Charpy Impact Unnotched	0.500 J/cm ²	2.38 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)	71.0 Â°C	160 Â°F	ISO 75

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

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

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 260 °C	356 - 500 °F	ISO 294

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