

Styrolution Novodur® HH-106 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

Novodur HH-106 is a high heat injection molding grade providing a balanced property profile. Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Novodur-HH-106-ABS.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.25 % @Temperature 23.0 Â°C	0.25 % @Temperature 73.4 Â°F	50% RH; ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294-4
Melt Flow	7.0 g/10 min @Load 10.0 kg, Temperature 220 Â°C	7.0 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	102 MPa	14800 psi	ISO 2039-1
Tensile Strength, Yield	51.0 MPa	7400 psi	ISO 527
Elongation at Yield	3.0 %	3.0 %	ISO 527
Tensile Modulus	2.40 GPa	348 ksi	ISO 527
Flexural Strength	72.0 MPa	10400 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Charpy Impact Unnotched	10.0 J/cm ² @Temperature -30.0 Â°C	47.6 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179
	19.0 J/cm ² @Temperature 23.0 Â°C	90.4 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179
Charpy Impact, Notched	0.700 J/cm ² @Temperature -30.0 Â°C	3.33 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179
	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179

Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÅ²- Å°F	DIN 52612-1
Maximum Service Temperature, Air	85.0 Å°C	185 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	111 Å°C	232 Å°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	106 Å°C	223 Å°F	ISO 75
Vicat Softening Point	106 Å°C	223 Å°F	50Å°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	115 Å°C	239 Å°F	50Å°C/h; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Dielectric Strength	39.0 kV/mm	991 kV/in	Short Time; IEC 60243-1
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 270 Å°C	446 - 518 Å°F	ISO 294
Mold Temperature	40.0 - 60.0 Å°C	104 - 140 Å°F	ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294
Drying Temperature	80.0 Å°C	176 Å°F	
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	

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