

Styrolution Novodur® H801 ABS / PC

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Novodur H801 is a high heat injection molding grade with high impact strength and reduced emission. Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Novodur-H801-ABS-PC.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294-4
Melt Flow	9.0 g/10 min @Load 10.0 kg, Temperature 220 °C	9.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	105 MPa	15200 psi	ISO 2039-1
Tensile Strength, Yield	49.0 MPa	7110 psi	ISO 527
Elongation at Yield	3.0 %	3.0 %	ISO 527
Tensile Modulus	2.40 GPa	348 ksi	ISO 527
Charpy Impact Unnotched	16.0 J/cm ² @Temperature -30.0 °C	76.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	22.0 J/cm ² @Temperature 23.0 °C	105 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	106 °C	223 °F	ISO 75

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Â°C	210 Â°F	ISO TS
Vicat Softening Point	105 Â°C @Load 5.10 kg	221 Â°F @Load 11.2 lb	50Â°C/h; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.1 @Frequency 100 Hz	3.1 @Frequency 100 Hz	IEC 60250
Dielectric Strength	38.0 kV/mm @Thickness 1.50 mm	965 kV/in @Thickness 0.0591 in	Short Time; IEC 60243-1
Dissipation Factor	0.0050 @Frequency 100 Hz	0.0050 @Frequency 100 Hz	IEC 60250
	0.0090 @Frequency 1.00e+6 Hz	0.0090 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 Â°C	464 Â°F	ISO 294
Mold Temperature	70.0 Â°C	158 Â°F	ISO 294
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294
Drying Temperature	80.0 Â°C @Time 7200 - 14400 sec	176 Â°F @Time 2.00 - 4.00 hour	

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