

INEOS Styrolution® HH-106

Novodur HH-106 is a high heat injection molding grade providing a balanced property profile. Formerly sold under the Terluran® trade name. Information provided by Styrolution

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 °C	0.25 % @Temperature 73.4 °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 °C	7.0 g/10 min @Load 22.0 lb, Temperature 428 °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 °C	47.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	19.0 J/cm ² @Temperature 23.0 °C	90.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.700 J/cm ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	1.70 J/cm ² @Temperature 23.0 °C	8.09 ft-lb/in ² @Temperature 73.4 °F	ISO 179

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 @Thickness 1.50 mm	991 kV/in @Thickness 0.0591 in	Short Time; IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112