

INEOS Styrolution® HH-112

Novodur HH-112 is a high heat injection molding grade. It provides good heat resistance combined with enhanced stiffness. 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	6.0 g/10 min @Load 10.0 kg, Temperature 220 °C	6.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	114 MPa	16500 psi	ISO 2039-1
Tensile Strength, Yield	58.0 MPa	8410 psi	ISO 527
Elongation at Yield	3.1 %	3.1 %	ISO 527
Tensile Modulus	2.70 GPa	392 ksi	ISO 527
Flexural Strength	81.0 MPa	11700 psi	ISO 178
Flexural Modulus	2.70 GPa	392 ksi	ISO 178
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	14.0 J/cm ² @Temperature 23.0 °C	66.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.500 J/cm ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	1.20 J/cm ² @Temperature 23.0 °C	5.71 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	41.0 kV/mm @Thickness 1.50 mm	1040 kV/in @Thickness 0.0591 in	Short Time; IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112