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INEOS Styrolution® H701

Novodur H701 is an injection molding grade of ABS with heat resistance and high impact strength.
Information provided by Styrolution

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ISO 294-4
Melt Flow	8.0 g/10 min @Load 10.0 kg, Temperature 220 °C	8.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	95.0 MPa	13800 psi	ISO 2039-1
Tensile Strength, Yield	41.0 MPa	5950 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Elongation at Yield	2.7 %	2.7 %	ISO 527
Tensile Modulus	2.10 GPa	305 ksi	ISO 527
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m² @Temperature -30.0 °C	5.71 ft-lb/in² @Temperature -22.0 °F	ISO 180/A
	24.0 kJ/m² @Temperature 23.0 °C	11.4 ft-lb/in² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	12.0 J/cm² @Temperature -30.0 °C	57.1 ft-lb/in² @Temperature -22.0 °F	ISO 179
	18.0 J/cm² @Temperature 23.0 °C	85.7 ft-lb/in² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.30 J/cm² @Temperature -30.0 °C	6.19 ft-lb/in² @Temperature -22.0 °F	ISO 179
	2.40 J/cm² @Temperature 23.0 °C	11.4 ft-lb/in² @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 Constant	3.1 @Frequency 100 Hz	3.1 @Frequency 100 Hz	IEC 60250
Dielectric Strength	33.0 kV/mm @Thickness 1.50 mm	838 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 1e+6 Hz	0.0090 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112