

Styrolution Novodur® E401 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

Material Notes:

Novodur E401 is a high impact extrusion grade with good surface appearance. Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Novodur-E401-ABS.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ISO 294-4
Melt Flow	5.0 g/10 min @Load 10.0 kg, Temperature 220 °C	5.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	85.0 MPa	12300 psi	ISO 2039-1
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527
Elongation at Yield	2.5 %	2.5 %	ISO 527
Tensile Modulus	1.90 GPa	276 ksi	ISO 527
Flexural Strength	60.0 MPa	8700 psi	ISO 178
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
Izod Impact, Notched (ISO)	19.0 kJ/m ² @Temperature -30.0 °C	9.04 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	30.0 kJ/m ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	17.0 J/cm ² @Temperature -30.0 °C	80.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	21.0 J/cm ² @Temperature 23.0 °C	99.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179

Mechanical Properties	Metric @Temperature -30.0 Â°C	English @Temperature -22.0 Â°F	Comments
	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	ISO 179
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C	212 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C	201 Â°F	ISO 75
Vicat Softening Point	99.0 Â°C @Load 5.10 kg	210 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
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	220 - 270 Â°C	428 - 518 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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