

Styrolution Novodur® M205FC ABS

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

Material Notes:

Novodur HD M205FC is an injection molding grade especially suitable for medical applications providing enhanced stiffness. Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Novodur-M205FC-ABS.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 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	20 g/10 min @Load 10.0 kg, Temperature 220 °C	20 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	120 MPa	17400 psi	ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
Elongation at Yield	2.6 %	2.6 %	ISO 527
Tensile Modulus	2.55 GPa	370 ksi	ISO 527
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	2.60 GPa	377 ksi	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	15.0 kJ/m ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	10.0 J/cm ² @Temperature -30.0 °C	47.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	12.0 J/cm ² @Temperature 23.0 °C	57.1 ft-lb/in ² @Temperature 73.4 °F	ISO 179
	0.700 J/cm ²	3.33 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.60 J/cmÂ²	7.61 ft-lb/inÂ²	ISO 179
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	98.0 Â°C	208 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C	201 Â°F	ISO 75
Vicat Softening Point	98.0 Â°C @Load 5.10 kg	208 Â°F @Load 11.2 lb	50Â°C/h; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 2.00e+16 ohm-cm	>= 2.00e+16 ohm-cm	IEC 60093
Surface Resistance	>= 2.00e+17 ohm	>= 2.00e+17 ohm	IEC 60093
Dielectric Constant	3.0 @Frequency 100 Hz	3.0 @Frequency 100 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm @Thickness 1.50 mm	889 kV/in @Thickness 0.0591 in	Short Time; IEC 60243-1
Dissipation Factor	0.0055 @Frequency 100 Hz	0.0055 @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 - 260 Â°C	428 - 500 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
	80.0 Â°C	176 Â°F	

Drying Temperature Processing Properties	Metric @ Time 7200 - 14400 sec	English @ Time 2.00 - 4.00 hour	Comments
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