

Styrolution NOVODUR® P2MC ABS, Injection Grade

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

Material Notes:

Injection molding grade for plating; very good ratio between toughness, heat resistance and flow. Applications: All parts to plating: e.g. sanitary parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-NOVODUR-P2MC-ABS-Injection-Grade.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Water Absorption	0.30 %	0.30 %	Saturation in water
Water Absorption at Saturation	0.30 %	0.30 %	
Melt Flow	25 g/10 min @Load 10.0 kg, Temperature 220 °C	25 g/10 min @Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	
Elongation at Yield	2.4 %	2.4 %	
Tensile Modulus	2.20 GPa	319 ksi	
Charpy Impact Unnotched	NB	NB	
	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	2.40 J/cm ²	11.4 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C @Temperature 20.0 °C	55.6 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	
Vicat Softening Point	95.0 °C	203 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	
Dielectric Constant	2.7	2.7	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	2.8	2.8	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
Dissipation Factor	0.0050	0.0050	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0070	0.0070	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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