

Styrolution NOVODUR® P3H-AT ABS, Injection Grade

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

Material Notes:

Injection molding grade, antistatic, high gloss, improved chemical and dynamic resistance. Applications: Housings for telephones and household appliances.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-NOVODUR-P3H-AT-ABS-Injection-Grade.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
Water Absorption	0.30 %	0.30 %	Saturation in water
Water Absorption at Saturation	0.30 %	0.30 %	
Melt Flow	11 g/10 min @Load 10.0 kg, Temperature 220 °C	11 g/10 min @Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	
Elongation at Yield	2.6 %	2.6 %	
Tensile Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	NB	NB	
	0.500 J/cm ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	
Vicat Softening Point	96.0 °C	205 °F	

Thermal Properties Flammability, UL 94	^{MP} Metric	^{MP} English	Comments
	@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	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.1	3.1	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0060	0.0060	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0080	0.0080	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	600 V	600 V	

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