

Styrolution Novodur® P2M-AT ABS Pellets

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

Material Notes:

Novodur® P2M-AT has high impact strength, high gloss, and contains antistatic additive. It is used for the production of molded plastic articles.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Novodur-P2M-AT-ABS-Pellets.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	Test Condition: 60x60x2; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	Test Condition: 60x60x2; ISO 294-4
Melt Flow	22 g/10 min @Load 10.0 kg, Temperature 220 °C	22 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	39.0 MPa	5660 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 15 %	>= 15 %	50 mm/min; acc. ISO 527-1,-2
Elongation at Yield	2.1 %	2.1 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	62.0 MPa	8990 psi	2 mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature -30.0 °C	5.23 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A
	23.0 kJ/m ² @Temperature 23.0 °C	10.9 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
Charpy Impact Unnotched	12.0 J/cm ² @Temperature -30.0 °C	57.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
	18.0 J/cm ²		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	85.7 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eJ
Charpy Impact, Notched	1.10 J/cmÂ² @Temperature -30.0 Â°C	5.23 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179-1eA
	2.20 J/cmÂ² @Temperature 23.0 Â°C	10.5 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear	100 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	55.6 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1,-2; Parallel to Flow
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Â°C	207 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Â°C	199 Â°F	ISO 75-1,-2
Vicat Softening Point	98.0 Â°C @Load 5.10 kg	208 Â°F @Load 11.2 lb	50Â°C/hour; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Flame Spread	55 mm/min @Thickness 2.00 mm	2.2 in/min @Thickness 0.0787 in	US-FMVSS; ISO 3795

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	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	IEC 60250
	3.1 @Frequency 100 Hz	3.1 @Frequency 100 Hz	IEC 60250
Dielectric Strength	33.0 kV/mm @Thickness 1.00 mm	838 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.0060	0.0060	IEC 60250

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
	0.0080	0.0080	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A, Rating; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 Â°C	464 Â°F	Injection Molding; ISO 294
Mold Temperature	70.0 Â°C	158 Â°F	Injection Molding; ISO 294
Injection Velocity	240 mm/sec	9.45 in/sec	Injection Molding; ISO 294

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