Ineos Nova 6201 Super High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Good toughness, Deep draw, Easy processing using all conventional methodsApplications: Thermoformed and molded packaging, Drink cups and lids, Structural foam, Custom sheetProperties were determined on injection molded specimens at 23Â°C and 50% R.H. unless otherwise specified.Information provided by NOVA Chemicals.INEOS NOVA began October 1 2007 as an expansion of the 50:50 joint venture between NOVA Chemicals and INEOS to include North American assets.Â

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ineos-Nova-6201-Super-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/inÂ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	3.0 g/10 min	3.0 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	49	49	
Hardness, Rockwell M	75	75	
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	2.135 GPa	309.7 ksi	
Flexural Yield Strength	34.0 MPa	4930 psi	ASTM D790
Flexural Modulus	1.965 GPa	285.0 ksi	ASTM D790
Izod Impact, Notched	2.24 J/cm @Diameter 3.17 mm	4.20 ft-lb/in @Diameter 0.125 in	bar, 0.010" notch radius; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 Âµm/m-Â°C @Temperature 20.0 Â°C	41.7 Âµin/in-Â°F @Temperature 68.0 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	ASTM D648
Vicat Softening Point	100 Â°C	212 Â°F	ASTM D1525
Flammability, UL94			

Thermal Properties	Metric	English	Comments
HB	HB		

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.51 @Frequency 1e+6 Hz	2.51 @Frequency 1e+6 Hz	
Dielectric Strength	15.7 kV/mm @Thickness 3.17 mm	400 kV/in @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 274 Â°C	374 - 525 Â°F	
Mold Temperature	38.0 - 82.0 Â°C	100 - 180 Â°F	

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