

Ineos Nova 6200 Super High Impact Polystyrene

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

Material Notes:

Good toughness, Deep draw, Easy processing using all conventional methods Applications: Thermoformed and molded packaging, Drink cups and lids, Structural foam, Custom sheet Properties 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-6200-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	ASTM D785
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	ASTM D638
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	HB Metric	HB English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Constant	2.51	2.51	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.7 kV/mm	400 kV/in	
	@Thickness 3.17 mm	@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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