

Ineos Nova 1200 High Heat Crystal Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

Good processing characteristics, High tensile strength and modulus, Excellent clarity, USP Class VI Applications: Direct injection foam, Biaxially oriented sheet, Glazing sheet Exposure to gamma radiation in the 2.02-6.06 megarad range has no significant effect on the physical and optical properties of the material. Properties were determined on injection molded specimens at 23°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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-Nova-1200-High-Heat-Crystal-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	1.6 g/10 min	1.6 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	
Tensile Strength, Yield	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
Modulus of Elasticity	3.172 GPa	460.1 ksi	ASTM D638
Flexural Yield Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	3.448 GPa	500.1 ksi	ASTM D790
Izod Impact, Notched	0.200 J/cm @Diameter 3.17 mm	0.375 ft-lb/in @Diameter 0.125 in	bar, 0.010" notch radius; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ASTM D648
Vicat Softening Point	109 °C	228 °F	ASTM D1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
	1.59	1.59	

Refractive Index Optical Properties	Metric @ Wavelength 589.3 nm	English @ Wavelength 589.3 nm	sodium D line Comments
Optical Density	0.046	0.046	400-700 nm avg.
Transmission, Visible	88 - 90 %	88 - 90 %	at 550 nm

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.59	2.59	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

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

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