

Ineos Nova 50 High Performance Styrenic Enhanced Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

High strength crystal polystyrene, High heat crystal polystyrene, Custom colorsApplications: Injection molding or extrusion, Designed for applications requiring strength and high heat resistance where custom coloring is a requirementPerformance grades of polystyrene are engineered to have specific properties. These products can be custom colored. NOVA Chemicals can accurately match your color needs with its leading edge color technology. Injection Speed: FastColored material may differ in some properties. All molded samples were an 1/8 inch thick unless noted.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-50-High-Performance-Styrenic-Enhanced-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	3.5 g/10 min @Load 5.00 kg, Temperature 200 °C	3.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	2.0 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	2.0 in/min; ASTM D638
Flexural Strength	69.0 MPa	10000 psi	0.1 in/min; ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	0.1 in/min; ASTM D790
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	ASTM D648
Vicat Softening Point	106 °C	223 °F	ASTM D648
Flammability, UL94	HB	HB	0.058 in

Processing Properties	Metric	English	Comments
Processing Temperature	<= 260 °C	<= 500 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	210 - 232 °C	410 - 450 °F	
Front Barrel Temperature	216 - 238 °C	421 - 460 °F	
Melt Temperature	216 - 238 °C	421 - 460 °F	
Mold Temperature	27.0 - 54.0 °C	80.6 - 129 °F	
Drying Temperature	68.0 °C	154 °F	
Dry Time	2 hour	2 hour	
Back Pressure	0.345 MPa	50.0 psi	

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