

Ineos Nova 1983 High Performance Styrenic Enhanced Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Extremely high impact strength with good flexural stiffness, Color Stable, Custom colors, UL94 HB at 0.060 for all colors
Applications:
Suitable for extrusion or injection molding processes requiring color stability, Lawn and garden accessories, Toys, Business equipment
Performance 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: Fast
Colored 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-1983-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	28.0 MPa	4060 psi	2.0 in/min; ASTM D638
Elongation at Break	35 %	35 %	2.0 in/min; ASTM D638
Flexural Strength	36.0 MPa	5220 psi	0.1 in/min; ASTM D790
Flexural Modulus	1.97 GPa	286 ksi	0.1 in/min; ASTM D790
Izod Impact, Notched	2.13 J/cm	3.99 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	ASTM D648
Vicat Softening Point	102 °C	216 °F	ASTM D648
Flammability, UL94	HB	HB	0.060 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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