

Ineos Nova 817 High Performance Styrenic Enhanced Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

High flow crystal polystyrene, Custom colors
Applications: Injection molding, Designed for use in high speed, Thin section applications and complex parts designs where custom coloring is a requirement
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-817-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	17 g/10 min @Load 5.00 kg, Temperature 200 °C	17 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	2.0 in/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	2.0 in/min; ASTM D638
Flexural Strength	55.0 MPa	7980 psi	0.1 in/min; ASTM D790
Flexural Modulus	2.90 GPa	421 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)	85.0 °C	185 °F	ASTM D648
Vicat Softening Point	93.0 °C	199 °F	ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	<= 260 °C	<= 500 °F	
Rear Barrel Temperature	177 - 199 °C	351 - 390 °F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	199 - 221 °C	390 - 430 °F	
Melt Temperature	204 - 227 °C	399 - 441 °F	
Mold Temperature	24.0 - 54.0 °C	75.2 - 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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