

Ineos Nova 8048 High Performance Styrenic Enhanced Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Improved toughness, Custom colors
Applications: Designed for injection molding applications requiring clarity and toughness
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-8048-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	14 g/10 min @Load 5.00 kg, Temperature 200 °C	14 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	41.0 MPa	5950 psi	2.0 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	2.0 in/min; ASTM D638
Flexural Strength	59.0 MPa	8560 psi	0.1 in/min; ASTM D790
Flexural Modulus	2.76 GPa	400 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)	80.0 °C	176 °F	ASTM D648
Vicat Softening Point	95.0 °C	203 °F	ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	<= 260 °C	<= 500 °F	
Rear Barrel Temperature	177 - 199 °C	351 - 390 °F	
Middle Barrel Temperature	193 - 216 °C	379 - 421 °F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	193 - 221 °C	389 - 430 °F	
Melt Temperature	204 - 227 °C	399 - 441 °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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