

Ineos Nova 271 High Performance Styrenic Enhanced Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Excellent balance of stiffness, heat resistance, and impact properties, Custom colors
Applications: Injection molding and extrusion,
Applications requiring strength and durability 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-271-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	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	2.0 in/min; ASTM D638
Elongation at Break	30 %	30 %	2.0 in/min; ASTM D638
Flexural Strength	48.0 MPa	6960 psi	0.1 in/min; ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	0.1 in/min; ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 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	103 °C	217 °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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