

Ineos Nova 731G High Impact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Balance of stiffness and toughness, High impact, USP Class VI Applications: Razor components, Personal care, Consumer goods In addition, exposure to gamma radiation in the 2.02-6.06 megarad range has no significant effect on the physical and optical properties of the material. Properties were determined on injection molded specimens at 23°C and 50% R.H. unless otherwise specified. Information provided by NOVA Chemicals. This grade no longer in product line. 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-731G-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	4.0 g/10 min	4.0 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Yield Strength	34.0 MPa	4930 psi	ASTM D790
Flexural Modulus	1.724 GPa	250.0 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Diameter 3.17 mm	2.19 ft-lb/in @Diameter 0.125 in	bar, 0.010" notch radius; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ASTM D648
Vicat Softening Point	101 °C	214 °F	ASTM D1525
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.59	2.59	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	19.7 kV/mm	500 kV/in	

Dielectric Strength Electrical Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	Comments
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Processing Properties	Metric	English	Comments
Melt Temperature	190 - 274 °C	374 - 525 °F	
Mold Temperature	38.0 - 82.0 °C	100 - 180 °F	

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