

Ineos Nova 3930 General Purpose Crystal Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

Material Notes:

High melt flow, Crystal clear
 Applications: Razor components, Personal care, Thin wall molding
 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. 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-3930-General-Purpose-Crystal-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 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	19.7 g/10 min	19.7 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	
Tensile Strength, Ultimate	39.0 MPa	5660 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	ASTM D638
Modulus of Elasticity	3.50 GPa	508 ksi	ASTM D638
Flexural Yield Strength	70.0 MPa	10200 psi	ASTM D790
Flexural Modulus	3.40 GPa	493 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	ASTM D648
Vicat Softening Point	94.0 °C	201 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.59 @Wavelength 589.3 nm	1.59 @Wavelength 589.3 nm	sodium D line
Optical Density	0.046	0.046	400-700 nm avg.
Transmission, Visible	88 - 90 %	88 - 90 %	at 550 nm

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.59	2.59	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

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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