

Ineos Nova PS 3190 Crystal Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Information provided by Nova ChemicalsINEOS 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-PS-3190-Crystal-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	11 g/10 min @Load 5.00 kg, Temperature 200 °C	11 g/10 min @Load 11.0 lb, Temperature 392 °F	old Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	63	63	ASTM D785
Tensile Strength at Break	46.0 MPa	6670 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	3.345 GPa	485.2 ksi	ASTM D638
Flexural Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	3.38 GPa	490 ksi	ASTM D790
Izod Impact, Notched	0.210 J/cm @Diameter 3.17 mm	0.393 ft-lb/in @Diameter 0.125 in	bar; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	91.0 °C	196 °F	annealed; ASTM D648
Vicat Softening Point	100 °C	212 °F	Rate B; ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.59 - 1.60 @Wavelength 589.3 nm	1.59 - 1.60 @Wavelength 589.3 nm	Sodium D Line
Optical Density	0.046	0.046	400 mm- 700 mm average

Optical Properties	Metric	English	Comments
Transmission, Visible	@Wavelength 550 nm	@Wavelength 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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