

## Ineos Nova 4501 Medium Impact Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

Good toughnessApplications: Light louvers, Injection molding applicationsProperties 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-4501-Medium-Impact-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ineos-Nova-4501-Medium-Impact-Polystyrene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	6.5 g/10 min	6.5 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Yield Strength	36.0 MPa	5220 psi	ASTM D790
Flexural Modulus	2.427 GPa	352.0 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm @Diameter 3.17 mm	1.20 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)	87.0 °C	189 °F	ASTM D648
Vicat Softening Point	103 °C	217 °F	ASTM D1525
Flammability, UL94	HB	HB	

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