

## Ineos Nova 2504 General Purpose Crystal Polystyrene (discontinued \*\*)

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

### Material Notes:

Good blending resin, Good balance of flow, strength and heat resistance, USP Class VI Applications: Consumer electronics, Housewares  
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-2504-General-Purpose-Crystal-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ineos-Nova-2504-General-Purpose-Crystal-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	7.0 g/10 min	7.0 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	
Tensile Strength, Yield	38.0 MPa	5510 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Yield Strength	62.0 MPa	8990 psi	ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ASTM D648
Vicat Softening Point	102 °C	216 °F	ASTM D1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Refractive Index	1.59	1.59	sodium D line
	@Wavelength 589.3 nm	@Wavelength 589.3 nm	

Optical Properties	Metric	English	Comments
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	

## Contact Songhan Plastic Technology Co.,Ltd.

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