

## Ineos Nova 5540 High Impact Polystyrene (discontinued \*\*)

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

### Material Notes:

Excellent balance of toughness, flow, and set-up, High gloss, USP Class VI Applications: Structural foam, Housewares, Toys, Appliance parts, Dairy containers 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-5540-High-Impact-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ineos-Nova-5540-High-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	10 g/10 min	10 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	58	58	
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Modulus of Elasticity	1.965 GPa	285.0 ksi	ASTM D638
Flexural Yield Strength	49.0 MPa	7110 psi	ASTM D790
Flexural Modulus	1.966 GPa	285.1 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Diameter 3.17 mm	2.49 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	96.0 °C	205 °F	ASTM D1525
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.51	2.51	

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Dielectric Strength	15.7 kV/mm	400 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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