

## Ineos Nova 5511 High Impact Polystyrene

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

### Material Notes:

Good overall balance of properties, USP Class VI Applications: Audio cassettes and cartridges, Housewares, Toys, Industrial products 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-5511-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_ineos-Nova-5511-High-Impact-Polystyrene.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	8.0 g/10 min	8.0 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.0 MPa	3480 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Yield Strength	34.0 MPa	4930 psi	ASTM D790
Flexural Modulus	1.793 GPa	260.1 ksi	ASTM D790
Izod Impact, Notched	1.98 J/cm @Diameter 3.17 mm	3.71 ft-lb/in @Diameter 0.125 in	bar, 0.010" notch radius; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 Åµm/m-Å°C @Temperature 20.0 Å°C	41.7 Åµin/in-Å°F @Temperature 68.0 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Å°C	180 Å°F	ASTM D648
Vicat Softening Point	98.0 Å°C	208 Å°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 @Thickness 3.17 mm	400 kV/in @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 274 Å°C	374 - 525 Å°F	
Mold Temperature	38.0 - 82.0 Å°C	100 - 180 Å°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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