

Ineos Nova 5490 High Impact Polystyrene (discontinued **)

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

Material Notes:

High heat, Good environmental stress crack resistance, Excellent printability
 Applications: Custom sheet, Lithographic applications
 Properties were determined on injection molded specimens at 23°C and 50% R.H. unless otherwise specified.
 Information provided by NOVA Chemicals. This grade no longer in product line. 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-5490-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	2.2 g/10 min	2.2 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Yield Strength	33.0 MPa	4790 psi	ASTM D790
Flexural Modulus	1.62 GPa	235 ksi	ASTM D790
Izod Impact, Notched	1.28 J/cm @Diameter 3.17 mm	2.40 ft-lb/in @Diameter 0.125 in	bar, 0.010" notch radius; ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	102 °C	216 °F	ASTM D1525

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.51 @Frequency 1e+6 Hz	2.51 @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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