Ineos Nova 4210 Medium Impact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Excellent balance of properties, USP Class VIApplications: Consumer electronics, 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-4210-Medium-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	3.5 g/10 min	3.5 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	57	57	
Tensile Strength, Yield	36.0 MPa	5220 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Modulus of Elasticity	2.759 GPa	400.2 ksi	ASTM D638
Flexural Yield Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	2.759 GPa	400.2 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm @Diameter 3.17 mm	0.993 ft-lb/in @Diameter 0.125 in	bar, 0.010" notch radius; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 µm/m-°C @Temperature 20.0 °C	41.7 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	91.0 °C	196 °F	ASTM D648
Vicat Softening Point	104 °C	219 °F	ASTM D1525
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments

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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