

Ineos Nova 5410 High Impact Polystyrene

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

Material Notes:

High impact, Good ESCR, Good printability
 Applications: Thermoformed containers and lids, Hot and cold beverages cups, Custom sheet
 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-5410-High-Impact-Polystyrene.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	3.0 g/10 min	3.0 g/10 min	Condition G

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Yield Strength	29.0 MPa	4210 psi	ASTM D790
Flexural Modulus	1.65 GPa	239 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm @Diameter 3.17 mm	2.79 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)	85.0 °C	185 °F	ASTM D648
Vicat Softening Point	100 °C	212 °F	ASTM D1525
Flammability, UL94	HB	HB	

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	

Electrical Properties	Metric	English	Comments
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	

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