Ineos Nova FX510 Super High Impact Polystyrene (discontinued **)

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

Material Notes:

Features: Extremely high impact strengthGood flexural strengthUL Classification 94 HBCustom colors availableApplications: Injection molding or extrusionSuitable replacement for some engineering resinsToysPackagingBusiness equipmentElectronic AccessoriesInformation provided by Nova ChemicalsINEOS 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-FX510-Super-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	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 @Load 5.00 kg, Temperature 200 °C	3.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Strength	37.0 MPa	5370 psi	ASTM D790
Flexural Modulus	1.97 GPa	286 ksi	ASTM D790
Izod Impact, Notched	2.24 J/cm @Diameter 3.17 mm	4.20 ft-lb/in @Diameter 0.125 in	bar; 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)	87.0 °C	189 °F	ASTM D648
Vicat Softening Point	102 °C	216 °F	Rate B; ASTM D1525

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.51	2.51	

Electrical Properties	Metric	English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
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 °C	374 - 525 °F	
Mold Temperature	38.0 - 82.0 °C	100 - 180 °F	

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