

Ineos Nova FX550 (ASTM) Advanced Styrenic Polymer (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Extremely high glossHigh Izod impact strengthUL Classification 94 HBPractical toughnessHigh flow for injection moldingScuff resistanceApplications: Replacement resin for selected ABS applicationsRefrigerator shelving and trays Office accessories, trays, and binsVacuum and small appliance housing Cosmetics packaging and displays Housewares and toysInformation 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-FX550-ASTM-Advanced-Styrenic-Polymer-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	11 g/10 min @Load 5.00 kg, Temperature 200 °C	11 g/10 min @Load 11.0 lb, Temperature 392 °F	old Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	51	51	ASTM D785
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM D638
Elongation at Break	65 %	65 %	ASTM D638
Tensile Modulus	2.14 GPa	310 ksi	ASTM D638
Flexural Strength	42.0 MPa	6090 psi	at 5% strain; ASTM D790
Flexural Modulus	2.24 GPa	325 ksi	ASTM D790
Izod Impact, Notched	1.87 J/cm @Diameter 3.17 mm	3.50 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)	85.0 °C	185 °F	annealed; ASTM D648
Vicat Softening Point	96.0 °C	205 °F	Rate B; ASTM D1525

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.51	2.51	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.7 kV/mm	400 kV/in	
	@Thickness 3.17 mm	@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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