

Ineos Nova Styrosun® 3600 Weather Resistant High Impact Styrenic Polymer

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

Material Notes:

Features: Outdoor weatherablePhysical property retention after UV exposurePaintable and printableExcellent toughness Can be injection molded or co-extruded Easy to process, no drying required Applications: Inset window frames on doors Outdoor signsIrrigation/sprinkler systemsGardening and yard accessoriesRecreational vehicle componentsInformation 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-Styrosun-3600-Weather-Resistant-High-Impact-Styrenic-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	5.3 g/10 min @Load 5.00 kg, Temperature 200 °C	5.3 g/10 min @Load 11.0 lb, Temperature 392 °F	old Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Tensile Modulus	2.16 GPa	313 ksi	ASTM D638
Flexural Strength	44.0 MPa	6380 psi	ASTM D790
Flexural Modulus	2.04 GPa	296 ksi	ASTM D790
Izod Impact, Notched	2.00 J/cm	3.75 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	annealed; ASTM D648
Vicat Softening Point	97.0 °C	207 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	182 - 204 °C	360 - 399 °F	
Middle Barrel Temperature	204 - 227 °C	399 - 441 °F	
Front Barrel Temperature	216 - 238 °C	421 - 460 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	32.0 - 54.0 Â°C	89.6 - 129 Â°F	
Back Pressure	0.345 MPa	50.0 psi	

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