

Ineos Nova Styrosun[®] 6600 Weather Resistant High Impact Styrenic Polymer

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

Material Notes:

Features: Outdoor weatherable Physical property retention after UV exposure Paintable and printable Excellent toughness Can be injection molded or co-extruded Easy to process, no drying required Applications: Building/construction Outdoor signs Irrigation/sprinkler systems Gardening and yard accessories Outdoor trays, containers 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-Styrosun-6600-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	2.1 g/10 min @Load 5.00 kg, Temperature 200 °C	2.1 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	2.28 GPa	331 ksi	ASTM D638
Flexural Strength	45.0 MPa	6530 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	2.50 J/cm	4.68 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	84.0 °C	183 °F	annealed; ASTM D648
Vicat Softening Point	96.0 °C	205 °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
Back Pressure	0.345 MPa	50.0 psi	

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