

Ineos Styrenics 473D High-Impact Polystyrene Resin (NAFTA)

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

Material Notes:

Description: High-impact, high-flow grade for a wide variety of applications, including appliance components, consumer electronics housings, magnetic and optical media, building and construction, packaging and food service, recreation equipment and sporting goods, medical devices and labware, office products, cosmetic and personal care products, and housewares. Information provided by BASF. Ineos Styrenics purchased this product line from BASF in 2005.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-Styrenics-473D-High-Impact-Polystyrene-Resin-NAFTA.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Water Absorption at Saturation	<= 0.10 %	<= 0.10 %	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	13 g/10 min @Load 5.00 kg, Temperature 200 Â°C	13 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.0 MPa	2320 psi	ASTM D638
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	2.275 GPa	330.0 ksi	ASTM D638
Flexural Modulus	1.98 GPa	287 ksi	ASTM D790-1
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256-A
Gardner Impact	28.2 J @Temperature 23.0 Â°C	20.8 ft-lb @Temperature 73.4 Â°F	ASTM D5420, GB

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.1 Â°C	178 Â°F	ASTM D648
Vicat Softening Point	93.3 Â°C	200 Â°F	ASTM D1525
Flammability, UL94	HB	HB	Natural Color

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Optical Properties	Metric	English	Comments
Gloss	55 %	55 %	60°; ASTM D523
Processing Properties	Metric	English	Comments
Melt Temperature	180 - 280 °C	356 - 536 °F	Injection Molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China