

Ineos Styrenics 496N High-Impact Polystyrene Resin (NAFTA)

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

Material Notes:

Description: High-impact, lower flow grades for food packaging, dairy containers, lids, plates, appliance components and housings. 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-496N-High-Impact-Polystyrene-Resin-NAFTA.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	<= 0.10 %	<= 0.10 %	23Â°C/50% RH
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	2.8 g/10 min @Load 5.00 kg, Temperature 200 Â°C	2.8 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	58	58	ASTM D785
Tensile Strength at Break	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	23.5 MPa	3410 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	2.137 GPa	310.0 ksi	ASTM D638
Flexural Modulus	1.689 GPa	245.0 ksi	ASTM D790-1
Izod Impact, Notched	1.49 J/cm	2.80 ft-lb/in	ASTM D256-A
Gardner Impact	36.2 J @Thickness 3.17 mm, Temperature 23.0 Â°C	26.7 ft-lb @Thickness 0.125 in, Temperature 73.4 Â°F	ASTM D5420, GB

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	ASTM D648
Vicat Softening Point	102 Â°C	216 Â°F	ASTM D1525
	HB	HB	

Flammability: UL 94 Thermal Properties	Metric @ Thickness 1.50 mm	English @ Thickness 0.0591 in	all colors Comments
Optical Properties	Metric	English	Comments
Gloss	60 %	60 %	60°; ASTM D523
Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	Extrusion
	180 - 280 °C	356 - 536 °F	Molding

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