

Ineos Styrenics Polystyrene 486N (NAFTA)

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

Material Notes:

High-impact grade of polystyrene with excellent ESCR. 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-Polystyrene-486N-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 %	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	45	45	ASTM D785
Tensile Strength, Ultimate	26.0 MPa	3770 psi	ASTM D638
Tensile Strength, Yield	17.0 MPa	2470 psi	ASTM D638
Elongation at Break	65 %	65 %	ASTM D638
Tensile Modulus	1.10 GPa	160 ksi	ASTM D638
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790-1
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
Gardner Impact	17.0 J @Thickness 3.17 mm	12.5 ft-lb @Thickness 0.125 in	ASTM D3029

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	101 Â°C	214 Â°F	ASTM D1525
	HB	HB	

Flammability: UL 94 Thermal Properties	Metric @ Thickness 1.50 mm	English @ Thickness 0.0591 in	Comments
Optical Properties	Metric	English	Comments
Gloss	15 %	15 %	60°; ASTM D523
Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	Extrusion

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