

Ineos Styrenics Polystyrene 476M (NAFTA)

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

Material Notes:

High-impact grade of polystyrene with good ESCR designed to provide uniform melt flow for excellent processability. 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-476M-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	3.1 g/10 min @Load 5.00 kg, Temperature 200 Â°C	3.1 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	50	50	ASTM D785
Tensile Strength, Ultimate	23.0 MPa	3340 psi	ASTM D638
Tensile Strength, Yield	19.0 MPa	2760 psi	ASTM D638
Elongation at Break	65 %	65 %	ASTM D638
Tensile Modulus	1.724 GPa	250.0 ksi	ASTM D638
Flexural Modulus	1.655 GPa	240.0 ksi	ASTM D790-1
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
Gardner Impact	22.6 J @Thickness 3.17 mm	16.7 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 1.00 mm	English @Thickness 0.0394 in	Comments
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Gloss	25 %	25 %	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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