

Ineos Styrenics Polystyrene 168M (NAFTA)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

High heat, high molecular weight general purpose polystyrene with low crystal clarity. It offers high stiffness for extrusion/thermoforming applications, especially for the food packaging. 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-168M-NAFTA.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	1.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	1.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	78	78	ASTM D785
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	ASTM D638
Flexural Modulus	3.31 GPa	480 ksi	ASTM D790-1

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C	201 Â°F	ASTM D648
Vicat Softening Point	109 Â°C	228 Â°F	ASTM D1525
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	Molding Temp

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