

## Ineos Styrenics 166H General Purpose Polystyrene (NAFTA)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

### Material Notes:

Description: Polystyrene 166H is a high molecular weight general purpose polystyrene with good flow and crystal clarity. Polystyrene 166H offers good processing characteristics while yielding parts with exceptional toughness relative to standard GPPS. 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-166H-General-Purpose-Polystyrene-NAFTA.php](http://www.lookpolymers.com/polymer_ineos-Styrenics-166H-General-Purpose-Polystyrene-NAFTA.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	3.6 g/10 min @Load 5.00 kg, Temperature 200 °C	3.6 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	77	77	ASTM D785
Tensile Strength at Break	41.0 MPa	5950 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	ASTM D638
Flexural Modulus	3.05 GPa	442 ksi	ASTM D790-1
Izod Impact, Notched	0.160 J/cm	0.300 ft-lb/in	ASTM D256-A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM D648
Vicat Softening Point	98.0 °C	208 °F	ASTM D1525
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	All Colors

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	Extrusion
	180 - 280 °C	356 - 536 °F	Molding

Processing Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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