

Ineos Nova S-3207 Medium Impact Compact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

High flow medium impact polystyrene, designed of injection molding of low friction household goods, packaging and toys. It combines low friction properties with excellent (ultrasonic) weldability. All mechanical properties measured under standard conditions 50% RH and 23°C. Information provided by NOVA Chemicals. INEOS NOVA began October 1 2007 as an expansion of the 50:50 joint venture between NOVA Chemicals and INEOS to include North American assets.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ineos-Nova-S-3207-Medium-Impact-Compact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	DIN 53479
Water Absorption	<= 0.10 %	<= 0.10 %	DIN 53495
Melt Flow	18 g/10 min @Load 5.00 kg, Temperature 200 °C	18 g/10 min @Load 11.0 lb, Temperature 392 °F	DIN 5375/ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	82.0 MPa	11900 psi	DIN 53456
Tensile Strength, Ultimate	20.0 MPa	2900 psi	DIN 53455
Elongation at Break	35 %	35 %	DIN 53455
Modulus of Elasticity	2.35 GPa	341 ksi	DIN 53457
Flexural Yield Strength	37.0 MPa	5370 psi	DIN 53452
Izod Impact, Notched (ISO)	3.50 kJ/m ²	1.67 ft-lb/in ²	DIN 53453/ISO 179
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	DIN 53752
Thermal Conductivity	0.160 W/m-K	1.11 BTU-in/hr-ft ² -°F	DIN 52612
Vicat Softening Point	84.0 °C	183 °F	DIN 53460

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