

Ineos Nova S-4200 Medium Impact Compact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Medium impact polystyrene which combines excellent flow characteristics with a good dimensional stability under heat and a high stiffness. This grade is designed for injection molding of technical parts of a completed design. For injection molding generally a lubricated type is used. 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-4200-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	12 g/10 min @Load 5.00 kg, Temperature 200 °C	12 g/10 min @Load 11.0 lb, Temperature 392 °F	DIN 5375/ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	120 MPa	17400 psi	DIN 53456
Tensile Strength, Ultimate	28.0 MPa	4060 psi	DIN 53455
Elongation at Break	30 %	30 %	DIN 53455
Modulus of Elasticity	2.40 GPa	348 ksi	DIN 53457
Flexural Yield Strength	50.0 MPa	7250 psi	DIN 53452
Izod Impact, Notched (ISO)	3.50 kJ/m ²	1.67 ft-lb/in ²	Low Temp; DIN 53453
	5.00 kJ/m ²	2.38 ft-lb/in ²	DIN 53453/ISO 179
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 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	88.0 °C	190 °F	DIN 53460

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