

Ineos Nova S-5400 High Impact Compact Polystyrene (discontinued **)

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

Material Notes:

Impact polystyrene with high dimensional stability under heat, particularly suitable for extrusion and thermoforming of technical parts or packaging applications but also used for injection molding applications where a high stiffness and impact strength are required. 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-5400-High-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	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	DIN 5375/ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	DIN 53456
Tensile Strength, Ultimate	40.0 MPa	5800 psi	DIN 53455
Elongation at Break	20 %	20 %	DIN 53455
Modulus of Elasticity	2.30 GPa	334 ksi	DIN 53457
Flexural Yield Strength	65.0 MPa	9430 psi	DIN 53452
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	Low Temp; DIN 53453
	7.00 kJ/m ²	3.33 ft-lb/in ²	DIN 53453/ISO 179
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 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	94.0 °C	201 °F	DIN 53460

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