

## Ineos Nova S-3201 Medium Impact Compact Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

Extremely easy flowing medium impact polystyrene, designed for extreme short cycle times for injection molding of household, packaging and toys. The material is provided with external lubricant to improve flow properties in air conveying systems and to guarantee easy molding. For certain applications a non-lubricated type has to be preferred. 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-3201-Medium-Impact-Compact-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ineos-Nova-S-3201-Medium-Impact-Compact-Polystyrene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	DIN 53479
Water Absorption	<= 0.10 %	<= 0.10 %	DIN 53495
Melt Flow	14.5 g/10 min @Load 5.00 kg, Temperature 200 °C	14.5 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	22.0 MPa	3190 psi	DIN 53455
Elongation at Break	50 %	50 %	DIN 53455
Modulus of Elasticity	2.30 GPa	334 ksi	DIN 53457
Flexural Yield Strength	40.0 MPa	5800 psi	DIN 53452
Izod Impact, Notched (ISO)	2.50 kJ/m <sup>2</sup>	1.19 ft-lb/in <sup>2</sup>	Low Temp; DIN 53453
	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	DIN 53453/ISO 179
Izod Impact, Unnotched (ISO)	40.0 kJ/m <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	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 <sup>2</sup> -°F	DIN 52612
Vicat Softening Point	85.0 °C	185 °F	DIN 53460

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