

Ineos Nova 205 Crystal Polystyrene General Purpose Grade (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

Material Notes:

Easy flow, Good mechanical property balance, Extrusion and Injection Molding Applications: Sheet and film extrusion, Gloss capping, Blending with HIPS or SBS Properties were determined on injection molded specimens at 23° and 50% RH unless otherwise specified. 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-205-Crystal-Polystyrene-General-Purpose-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183A
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	13 g/10 min @Load 5.00 kg, Temperature 200 °C	13 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ISO 527B
Tensile Strength, Yield	44.0 MPa	6380 psi	ISO 527B
Elongation at Break	3.0 %	3.0 %	ISO 527B
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
Izod Impact, Notched	0.200 J/cm @Diameter 3.17 mm	0.375 ft-lb/in @Diameter 0.125 in	bar, 0.010" notch radius; ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	ISO 75
Vicat Softening Point	91.0 °C	196 °F	ISO 306A

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.59 @Frequency 1e+6 Hz	2.59 @Frequency 1e+6 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 274 °C	374 - 525 °F	
Mold Temperature	10.0 - 60.0 °C	50.0 - 140 °F	

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