

Ineos Nova 212 Crystal Polystyrene Low Flow Grade (discontinued **)

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

Material Notes:

Excellent balance of properties; Extrusion and Injection Molding Applications: Foam insulation, XPS food packaging, Sheet and profile extrusion, CD and DVD jewel boxes 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-212-Crystal-Polystyrene-Low-Flow-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 | 3.0 g/10 min @Load 5.00 kg, Temperature 200 °C | 3.0 g/10 min @Load 11.0 lb, Temperature 392 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------------------------------|--------------------------------------|-----------------------------------|
| Tensile Strength, Ultimate | 44.0 MPa | 6380 psi | ISO 527B |
| Tensile Strength, Yield | 46.0 MPa | 6670 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) | 86.0 °C | 187 °F | ISO 75 |
| Vicat Softening Point | 96.0 °C | 205 °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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