

Ineos Nova Zytar® 7000 Flame Retardant Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant

Material Notes:

Features: General purpose workhorse resin
 Good flow for injection molding
 UL94 V-0 @ 1.5 mm for all colors
 UL94 5VA rating
 FOAMED @ 4.6 mm, 0.87-1.07 g/cc density, natural color
 Custom colors available
 Applications: Television cabinets (front bezel, TV backs)
 Consumer electronics
 Exercise equipment
 Business equipment
 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-Zytar-7000-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	11 g/10 min @Load 5.00 kg, Temperature 200 °C	11 g/10 min @Load 11.0 lb, Temperature 392 °F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.8 MPa	3600 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	45.0 MPa	6530 psi	ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	ASTM D648
Vicat Softening Point	97.0 °C	207 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	171 - 193 °C	340 - 379 °F	
Middle Barrel Temperature	199 - 221 °C	390 - 430 °F	
Front Barrel Temperature	210 - 232 °C	410 - 450 °F	
Melt Temperature	210 - 232 °C	410 - 450 °F	

Processing Properties	Metric ^{54.0 Å°C}	English ^{29 Å°F}	Comments
Back Pressure	0.345 MPa	50.0 psi	

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