

## Ineos Nova Zytar® 351 High Performance Flame Retardant Polystyrene (discontinued \*\*)

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

### Material Notes:

High Vicat and heat reflection temperature, Custom colors  
 Applications: Injection molding, Gas-assist injection molding, Structural foam, TV cabinets, Electronic enclosures  
 This is an impact grade of polystyrene containing chemicals to increase resistance to ignition in laboratory flame tests. Laboratory flame tests are not intended to appraise the hazards of material under actual fire conditions. It has been processed at normal condition on a variety of machines. Melt temperatures about 470°F should be avoided to prevent degradation and possible machine damage through corrosion and/or high internal pressure. Therefore, processing equipment should be flushed out with polystyrene that does not contain flame retardants whenever an appreciable interruption of cycle occurs. Organic polymers containing flame retardant additives may release hazardous or toxic vapors if given lengthy or excessive exposure to high heat. Adequate ventilation should be used during processing.  
 Injection Speed: Slow to Moderate  
 Colored material may differ in some properties. All molded samples were an 1/8 inch thick unless noted.  
 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-351-High-Performance-Flame-Retardant-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ineos-Nova-Zytar-351-High-Performance-Flame-Retardant-Polystyrene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 200 °C	6.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.0 MPa	4210 psi	2.0 in/min; ASTM D638
Elongation at Break	30 %	30 %	2.0 in/min; ASTM D638
Flexural Strength	37.0 MPa	5370 psi	0.1 in/min; ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	0.1 in/min; ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	ASTM D648
Vicat Softening Point	100 °C	212 °F	ASTM D648

Flammability UL 94 Thermal Properties	V-0 Metric	V-0 English	0.063 in for all colors Comments
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Processing Temperature	<= 249 °C	<= 480 °F	
Rear Barrel Temperature	182 - 204 °C	360 - 399 °F	
Middle Barrel Temperature	204 - 227 °C	399 - 441 °F	
Front Barrel Temperature	216 - 238 °C	421 - 460 °F	
Melt Temperature	221 - 243 °C	430 - 469 °F	
Mold Temperature	32.0 - 54.0 °C	89.6 - 129 °F	
Drying Temperature	68.0 °C	154 °F	
Dry Time	2 hour	2 hour	
Back Pressure	0.345 MPa	50.0 psi	

## Contact Songhan Plastic Technology Co.,Ltd.

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