

## Ineos Nova Zylar® 94-580-A High Performance Styrenic, Acrylic Copolymer (discontinued \*\*)

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Polystyrene (PS)

### Material Notes:

Excellent heat distortion temperature, High clarity, strength and toughness, Enhanced mold release  
 Applications: Industrial covers and housings, Paper towel dispenser covers, Appliance parts  
 Injection Speed: Slow to Moderate  
 Characteristic property data is based on tests of clear or crystal material. Colored material may differ in some properties. All molded samples were an 1/8 thick unless noted.  
 General information about ZYLAR®: ZYLAR® acrylic copolymers are The Clear Alternative to polycarbonate, PETG, impact acrylic and clear ABS for applications that demand clarity and toughness and enhanced processing productivity. ZYLAR is a cost effective alternative in injection molding applications, with over 15 years of proven performance. ZYLAR has proven performance in a variety of applications, including medical, floor care, appliances, consumer goods, office accessories and supplies, pens and mechanical pencils, commercial paper towel dispensers, point of purchase displays, cosmetics packaging, toys, electronics packaging, housewares, consumer & industrial, and other applications. ZYLAR® acrylic copolymers provide value through enhanced performance, manufacturing productivity, ease of processing, and potential for capital avoidance through utilization of existing (styrenics) equipment and tooling.  
 Performance Attributes: Crisp clarity  
 Outstanding practical toughness and ductility  
 Balance of toughness and clarity  
 Easily decorated  
 Can be printed, hot stamped or metalized.  
 Gamma, Eto and E-beam sterilizable  
 Can be bonded to flexible PVC  
 Alcohol and lipid resistance  
 Resistance to most industrial and commercial cleaners  
 Resistance to most household cleaners  
 Resistant to most food additives  
 Residential dishwasher safe - top rack  
 Secondary operations include sonic welding, hotplate welding, ultrasonic bonding and adhesive bonding  
 Over-molding capability  
 Product Capabilities  
 Antistatic and indoor UV grades available  
 Available in natural and pre-colored  
 Color matching capabilities  
 Customer Productivity & Processing  
 5 to 25% density advantage means more parts per pound of resin  
 Faster cycle time  
 Reduced energy and labor costs associated with processing  
 Lower processing temperatures by as much as 150F  
 No drying  
 Styrenic processing  
 Better thermal stability  
 More usable regrind and no black specs  
 Product consistency, color consistency  
 Easily colored at the press  
 Easy flow  
 Able to utilize existing tooling for PC, clear ABS, impact acrylic, PETG, polyesters, propionate (CAP), PVC and other polymers  
 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-Zylar-94-580-A-High-Performance-Styrenic-Acrylic-Copolymer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ineos-Nova-Zylar-94-580-A-High-Performance-Styrenic-Acrylic-Copolymer-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	5.6 g/10 min @Load 5.00 kg, Temperature 200 °C	5.6 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
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Hardness, Rockwell R Mechanical Properties	Metric	English	ASTM D785 Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	0.2 in/min; ASTM D638
Elongation at Break	53 %	53 %	0.2 in/min; ASTM D638
Modulus of Elasticity	2.34 GPa	339 ksi	0.2 in/min; ASTM D638
Flexural Strength	49.0 MPa	7110 psi	0.5 in/min; ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	0.5 in/min; ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	Annealed; ASTM D648
Vicat Softening Point	99.0 °C	210 °F	ASTM D648

Optical Properties	Metric	English	Comments
Refractive Index	1.56	1.56	ASTM D542
Haze	3.1 %	3.1 %	ASTM D1003
Transmission, Visible	87.5 %	87.5 %	ASTM D1003

Processing Properties	Metric	English	Comments
Processing Temperature	<= 238 °C	<= 460 °F	
Rear Barrel Temperature	179 - 213 °C	354 - 415 °F	
Middle Barrel Temperature	185 - 218 °C	365 - 424 °F	
Front Barrel Temperature	191 - 224 °C	376 - 435 °F	
Melt Temperature	204 - 238 °C	399 - 460 °F	
Mold Temperature	27.0 - 54.0 °C	80.6 - 129 °F	
Drying Temperature	68.0 °C	154 °F	
Dry Time	2 hour	2 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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