

Ineos Nova Zylar® 221 Clear Impact Modified Acrylic Copolymer (discontinued **)

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded , Polystyrene (PS)

Material Notes:

Features: High clarity Enhanced mold release Good elongation Styrenic processing advantages Excellent property retention after ETO and gamma sterilization **Applications:** Displays Medical devices Office accessories Small appliances Break-resistant CD jewel boxes Toys 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 This specific grade was discontinued prior to the Styrolution acquisition of the Zylar® product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-Nova-Zylar-221-Clear-Impact-Modified-Acrylic-Copolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	4.8 g/10 min @Load 5.00 kg, Temperature 200 °C	4.8 g/10 min @Load 11.0 lb, Temperature 392 °F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	76	76	ASTM D785
Tensile Strength, Yield	36.0 MPa	5220 psi	ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.28 GPa	331 ksi	ASTM D638
Flexural Strength	57.0 MPa	8270 psi	ASTM D790
Flexural Modulus	2.17 GPa	315 ksi	ASTM D790
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	reverse notched; ASTM D256
Izod Impact, Unnotched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	ASTM D648
Vicat Softening Point	99.0 °C	210 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	n _D ; ASTM D542
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	89.2 %	89.2 %	ASTM D1003

Processing Properties	Metric	English	Comments
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	
Back Pressure	0.689 MPa	100 psi	

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