

Ineos Nova Zylar® 390 Clear Impact Modified Acrylic Copolymer (discontinued **)

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

Material Notes:

Features: Excellent clarityHigh flexural modulusGood toughness and elongationStyrenic processing advantagesExcellent property retention after ETO and gamma sterilizationMeets USP XXIII specifications for Class VI plasticsUL94 HB @ 1.5 mm for uncolored materials

Applications: AppliancesMedical devicesOffice accessoriesHousewaresToysGeneral 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 clarityOutstanding practical toughness and ductilityBalance of toughness and clarity Easily decorated Can be printed, hot stamped or metalized.Gamma, Eto and E-beam sterilizableCan be bonded to flexible PVCAlcohol and lipid resistanceResistance to most industrial and commercial cleanersResistance to most household cleanersResistant to most food additivesResidential dishwasher safe - top rackSecondary operations include sonic welding, hotplate welding, ultrasonic bonding and adhesive bondingOver-molding capability**Product Capabilities**Antistatic and indoor UV grades availableAvailable in natural and pre-coloredColor matching capabilitiesCustomer Productivity & Processing5 to 25% density advantage means more parts per pound of resinFaster cycle timeReduced energy and labor costs associated with processing Lower processing temperatures by as much as 150FNo drying Styrenic processingBetter thermal stabilityMore usable regrind and no black specsProduct consistency, color consistency Easily colored at the pressEasy flowAble to utilize existing tooling for PC, clear ABS, impact acrylic, PETG, polyesters, propionate (CAP), PVC and other polymersInformation provided by Nova ChemicalsThis 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-390-Clear-Impact-Modified-Acrylic-Copolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 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	4.2 g/10 min @Load 5.00 kg, Temperature 200 °C	4.2 g/10 min @Load 11.0 lb, Temperature 392 °F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	68	68	ASTM D785

Tensile Strength, Yield Mechanical Properties	28.0 MPa Metric	4060 psi English	ASTM D638 Comments
Elongation at Break	65 %	65 %	ASTM D638
Tensile Modulus	2.14 GPa	310 ksi	ASTM D638
Flexural Strength	52.0 MPa	7540 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	reverse notched; ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ASTM D648
Vicat Softening Point	97.0 °C	207 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	n _D ; ASTM D542
Haze	1.3 %	1.3 %	ASTM D1003
Transmission, Visible	89 %	89 %	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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