# Ineos Nova Zylar<sup>®</sup> 220 High Performance Styrenic, Acrylic Copolymer (discontinued \*\*)

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

#### Material Notes:

Excellent moldability, High clarity, Extended toughness and elongation, meets USP XXI specification for Class VI Plastics, Property retention after gamma irradiationApplications: Display, medical devices, Office accessories, Small appliances, Break resistant CD jewel boxes, ToysInjection Speed: Slow to moderateAll molded samples were an 1/8 inch 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 clarityOutstanding practical toughness and ductilityBalance of toughness and clarity Easily decorated Can be printed, hot stamped or metalized. Gamma, Eto and Ebeam 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 capabilityProduct CapabilitiesAntistatic 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 Chemicals. This specific grade was discontinued prior to the Styrolution acquision of the Zylar® product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer\_Ineos-Nova-Zylar-220-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 %	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	5.2 g/10 min	5.2 g/10 min	
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	76	76	ASTM D785

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Mechanical Properties	A Metric	English	Comments ASTM D638
Elongation at Break	40 %	<b>40</b> %	0.2 in/min; ASTM D638
Modulus of Elasticity	2.28 GPa	331 ksi	0.2 in/min; ASTM D638
Flexural Strength	57.0 MPa	8270 psi	0.05 in/min; ASTM D790
Flexural Modulus	2.17 GPa	315 ksi	0.05 in/min; ASTM D790
Izod Impact, Notched	0.270 J/cm	0.506 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
Flammability, UL94	НВ	НВ	0.060 in for all colors

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	ASTM D542
Haze	1.6 %	1.6 %	ASTM D1003
Transmission, Visible	89.2 %	89.2 %	ASTM D1003

Chemical Properties	Metric	English	Comments
Styrene Content	<= 0.10 %	<= 0.10 %	Residual Styrene Monomer Content per Berre Laboratory Analytical Methods 0075

Processing Properties	Metric	English	Comments
Processing Temperature	<= 243 °C	<= 469 °F	
Rear Barrel Temperature	188 - 221 °C	370 - 430 °F	
Middle Barrel Temperature	193 - 227 °C	379 - 441 °F	
Front Barrel Temperature	199 - 232 °C	390 - 450 °F	
Melt Temperature	210 - 243 °C	410 - 469 °F	
Mold Temperature	27.0 - 54.0 °C	80.6 - 129 °F	
Drying Temperature	65.6 °C	150 °F	
Dry Time	2 hour	2 hour	



### Contact Songhan Plastic Technology Co.,Ltd.

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