

Styrolution NAS® 21 Acrylic Copolymer

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

Features: Sparkling clarity Scratch resistant Can be blended with K-Resin at any level to modify flexibility, surface hardness, heat distortion temperatures, etc. Styrenic processing advantages Gamma and ETO sterilizable Meets USP XXIII specifications for Class VI plastics Applications: Appliances Point-of -Purchase Displays Medical Devices Toys Office Accessories Information provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-NAS-21-Acrylic-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 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	1.9 g/10 min	1.9 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	6.2 g/10 min	6.2 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
Tensile Strength, Ultimate	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ASTM D638
Tensile Modulus	3.24 GPa	470 ksi	ASTM D638
Flexural Strength	97.0 MPa	14100 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	ASTM D648
Vicat Softening Point	106 °C	223 °F	ASTM D1525

Thermal Properties Flammability, UL 94	HB Metric	HB English	Comments All colors
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	ASTM D542
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	91.3 %	91.3 %	ASTM D1003

Processing Properties	Metric	English	Comments
Processing Temperature	<= 260 °C	<= 500 °F	
Rear Barrel Temperature	182 - 216 °C	360 - 421 °F	
Middle Barrel Temperature	199 - 232 °C	390 - 450 °F	
Front Barrel Temperature	210 - 243 °C	410 - 469 °F	
Melt Temperature	210 - 243 °C	410 - 469 °F	
Mold Temperature	32.0 - 60.0 °C	89.6 - 140 °F	

Descriptive Properties	Value	Comments
Back Pressure	Moderate	
Injection Speed	slow-moderate	Typically moderate
Pre-Dry Requirements	2 hrs. at 82°C	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China