

Styrolution NAS[®] 36 UV Stabilized Acrylic Copolymer

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

Features: Sparkling clarity Excellent indoor light stability Styrenic processing advantages Scratch resistant Enhanced mold

release Applications: Appliances Point-of -Purchase Displays Toys Office Accessories Pre-colored Parts Information provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-NAS-36-UV-Stabilized-Acrylic-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	24 hr.; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	2.2 g/10 min	2.2 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Â°C	@Load 11.0 lb, Temperature 392 Â°F	
	8.6 g/10 min	8.6 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 Â°C	@Load 8.38 lb, Temperature 446 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ASTM D785
Tensile Strength, Ultimate	61.0 MPa	8850 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
Tensile Modulus	3.24 GPa	470 ksi	ASTM D638
Flexural Strength	101 MPa	14600 psi	ASTM D790
Flexural Modulus	3.17 GPa	460 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 Â°C	201 Â°F	ASTM D648
Vicat Softening Point	104 Â°C	219 Â°F	ASTM D1525
	HB	HB	

Thermal Properties	Metric	English	Comments
	@ Thickness 1.50 mm	@ Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.56	1.56	ASTM D542
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	91.4 %	91.4 %	ASTM D1003

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

Descriptive Properties	Value	Comments
Back Pressure	Moderate	
Color Stability, UV Exposure ΔE	3	at 300hrs, ASTM D4459
Injection Speed	slow-moderate	Typically moderate
Pre-Dry Requirements	2 hrs. at 82Â°C	

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