

Styrolution NAS[®] 90 High Performance Styrenic

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

Material Notes:

NAS[®] 90 has sparkling clarity, improved toughness, and good scratch resistance. This easily processed copolymer blends well with clear impact modifiers. It meets USP XXIII Spec. of Class VI Plastics. It also has good gamma radiation resistance and has a UL94 HB rating at 1.5 mm for uncolored materials. Applications: Appliances, point-of-purchase displays, housewares, bathroom accessories, medical devices, and toys. Information provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-NAS-90-High-Performance-Styrenic.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	24hr
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	1.5 g/10 min @Load 5.00 kg, Temperature 200 Â°C	1.5 g/10 min @Load 11.0 lb, Temperature 392 Â°F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	65	65	ASTM D785
Tensile Strength, Ultimate	58.0 MPa	8410 psi	0.2 in/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	0.2 in/min; ASTM D638; ASTM D638
Modulus of Elasticity	3.39 GPa	492 ksi	0.2 in/min; ASTM D638; ASTM D638
Flexural Yield Strength	100 MPa	14500 psi	0.05 in/min; ASTM D790
Flexural Modulus	3.40 GPa	493 ksi	.05 in/min;ASTM D790
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.80 J/cm	5.25 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 Â°C	176 Â°F	Annealed, 1.8 Mpa;ASTM D648
Vicat Softening Point	97.0 Â°C	207 Â°F	Annealed;ASTM D1525

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	91.7 %	91.7 %	ASTM D1003

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 243 Â°C	410 - 469 Â°F	
Middle Barrel Temperature	182 - 216 Â°C	360 - 421 Â°F	
Front Barrel Temperature	199 - 232 Â°C	390 - 450 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	
Drying Temperature	76.0 Â°C	169 Â°F	
Dry Time	2 hour	2 hour	
Back Pressure	0.340 MPa	49.3 psi	

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