

Styrolution NAS® 30 Series High Performance Styrenic

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

It has sparkling clarity and good scratch resistance. This easily processed copolymer blends well with K-Resin® to modify flexibility, surface hardness, and HDT. It meets USP XXIII Spec. of Class VI Plastics for all grades except UV-stabilized grades. Information provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-NAS-30-Series-High-Performance-Styrenic.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	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 @Load 5.00 kg, Temperature 200 °C	2.2 g/10 min @Load 11.0 lb, Temperature 392 °F	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ASTM D785
Tensile Strength, Ultimate	60.7 MPa	8800 psi	0.2 in/min;ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
Modulus of Elasticity	3.24 GPa	470 ksi	ASTM D638
Flexural Yield Strength	101 MPa	14600 psi	0.05 in/min; ASTM D790
Flexural Modulus	3.17 GPa	460 ksi	.05 in/min;ASTM D790
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	Annealed, 1.8 Mpa;ASTM D648
Vicat Softening Point	104 °C	219 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.56	1.56	ASTM D542
Haze	0.27 %	0.27 %	ASTM D1003

Optical Properties	Metric	English	Comments
Transmission, Visible	91.1%	51%	ASTM D1003

Processing Properties	Metric	English	Comments
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	
Drying Temperature	82.0 °C	180 °F	
Dry Time	2 hour	2 hour	

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