

Styrolution Luran® 368 R SAN

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), Molded

Material Notes:

General-purpose grade with well-balanced properties intended for both injection molding and extrusion. Information provided by STYROLUTION, which is a joint venture between BASF and INEOS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Luran-368-R-SAN.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM Data; MD
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 220 °C	10 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	104 MPa @Temperature -40.0 °C	15100 psi @Temperature -40.0 °F	ISO Data
Tensile Strength, Ultimate	75.0 MPa	10900 psi	5mm/min; ISO 527
Tensile Strength, Yield	75.0 MPa	10900 psi	2 in/min; ASTM Test
	32.0 MPa @Temperature 80.0 °C	4640 psi @Temperature 176 °F	ISO Data
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
	3.0 %	3.0 %	2 in/min; ASTM Test
	3.7 % @Temperature -40.0 °C	3.7 % @Temperature -40.0 °F	ISO Data
Elongation at Yield	2.1 % @Temperature 80.0 °C	2.1 % @Temperature 176 °F	ISO Data
Tensile Modulus	3.70 GPa	537 ksi	1mm/min; ISO 527
	3.80 GPa	551 ksi	ASTM Test
Flexural Strength	125 MPa	18100 psi	ASTM Test
Charpy Impact Unnotched	1.80 J/cm ²	8.57 ft-lb/in ²	ISO 179

Mechanical Properties	1.80 J/cm² Metric	8.57 ft-lb/in² English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.200 J/cm²	0.952 ft-lb/in²	ISO 179
Tensile Creep Modulus, 1 hour	3500 MPa	508000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	2800 MPa	406000 psi	ISO 899

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	216 °F	annealed; ASTM Test
	102 °C	216 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	annealed; ASTM Test
	98.0 °C	208 °F	ISO 75
Vicat Softening Point	106 °C	223 °F	Rate "A" Loading 1 (50 degC/h 10N); ASTM Test
	106 °C	223 °F	(50 °C/h / 50N) - B/50; ISO 306
Oxygen Index	18 %	18 %	ISO 4589-1/-2

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	unknown thickness

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	IEC 60093
Dielectric Constant	2.7	2.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.0	3.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 60243-1
Dissipation Factor	0.0040	0.0040	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	0.0070 Metric	0.0070 English	Comments IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	425 V	425 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 °C	482 °F	Injection molding
Mold Temperature	60.0 °C	140 °F	Injection molding
	98.0 °C	208 °F	Ejection temperature
Injection Velocity	200 mm/sec	7.87 in/sec	Injection molding

Descriptive Properties	Value	Comments
Color	Clear	
Commercial Status	North America and Europe	
FDA	Yes	
Form	Pellets	
Impact Modified	No	
NSF Std. 51	No	
NSF Std. 61	No	
Primary Processing Technique	Extrusion	
Processing	Injection Molding	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
	Thermoforming	
UL.UL -C	Yes	

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