

## Styrolution Luran<sup>®</sup> 388 S SAN

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

### Material Notes:

Description: Specialty grade with highest mechanical strength and chemical resistance. 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-388-S-SAN.php](http://www.lookpolymers.com/polymer_Styrolution-Luran-388-S-SAN.php)

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	23 <sup>°</sup> C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	
Melt Flow	7.56 g/10 min	7.56 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 <sup>°</sup> C	@Load 22.0 lb, Temperature 428 <sup>°</sup> F	
	9.72 g/10 min	9.72 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 200 <sup>°</sup> C	@Load 47.6 lb, Temperature 392 <sup>°</sup> F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	86	86	ISO 2039-2
Ball Indentation Hardness	175 MPa	25400 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength at Break	79.0 MPa	11500 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	3.80 GPa	551 ksi	ISO 527-1/-2
Flexural Strength	140 MPa	20300 psi	ISO 178
Izod Impact, Notched (ISO)	2.50 kJ/m <sup>2</sup>	1.19 ft-lb/in <sup>2</sup>	ISO 180/A
Charpy Impact Unnotched	2.10 J/cm <sup>2</sup>	9.99 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 <sup>°</sup> C	@Temperature 73.4 <sup>°</sup> F	
Charpy Impact, Notched	0.250 J/cm <sup>2</sup>	1.19 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0		

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
Tensile Creep Modulus, 1000 hours	2800 MPa @Strain <=0.500 %	406000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Åµm/m-Å°C @Temperature 23.0 - 80.0 Å°C	38.9 Åµin/in-Å°F @Temperature 73.4 - 176 Å°F	ISO 11359-1/-2
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÅ²-Å°F	DIN 52612-1
Maximum Service Temperature, Air	85.0 Å°C	185 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	102 Å°C	216 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Å°C	194 Å°F	ISO 75-1/-2
Vicat Softening Point	107 Å°C	225 Å°F	VST B50; ISO 306
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	IEC 60695-11-10
	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	IEC 60250
	3.0 @Frequency 100 Hz	3.0 @Frequency 100 Hz	IEC 60250
Dielectric Strength	34.0 kV/mm	864 kV/in	K20/P50; IEC 60243-1
Dissipation Factor	0.0050 @Frequency 100 Hz	0.0050 @Frequency 100 Hz	IEC 60250
	0.0080 @Frequency 1.00e+6 Hz	0.0080 @Frequency 1.00e+6 Hz	IEC 60250

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 Â°C	428 - 500 Â°F	Injection Molding
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Injection Molding
Drying Temperature	80.0 Â°C	176 Â°F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	Pre-drying

Descriptive Properties	Value	Comments
Color	Natural	
	Smoke Topaz 34838	
	Transparent 77686	
	Transparent 77770	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding and Extrusion	

## Contact Songhan Plastic Technology Co.,Ltd.

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