

## Styrolution Luran<sup>®</sup> 378 P G7 35% Glass Filled SAN

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

### Material Notes:

Description: Glass-reinforced grade with very high stiffness and low thermal coefficient of liner expansion. 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-378-P-G7-35-Glass-Filled-SAN.php](http://www.lookpolymers.com/polymer_Styrolution-Luran-378-P-G7-35-Glass-Filled-SAN.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.25 %	0.25 %	23 <sup>°</sup> C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	
Melt Flow	5.44 g/10 min	5.44 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 <sup>°</sup> C	@Load 22.0 lb, Temperature 428 <sup>°</sup> F	
	5.44 g/10 min	5.44 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	93	93	ISO 2039-2
Ball Indentation Hardness	240 MPa	34800 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength at Break	110 MPa	16000 psi	ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/-2
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527-1/-2
Flexural Strength	150 MPa	21800 psi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 180/A
Charpy Impact Unnotched	1.70 J/cm <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 <sup>°</sup> C	@Temperature 73.4 <sup>°</sup> F	
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 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	7500 MPa @Strain <=0.500 %	1.09e+6 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Åµm/m-Å°C @Temperature 23.0 - 80.0 Å°C	13.9 Åµin/in-Å°F @Temperature 73.4 - 176 Å°F	ISO 11359-1/-2
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-Å²-Å°F	DIN 52612-1
Maximum Service Temperature, Air	90.0 Å°C	194 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	108 Å°C	226 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	104 Å°C	219 Å°F	ISO 75-1/-2
Vicat Softening Point	109 Å°C	228 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	3.2 @Frequency 1.00e+6 Hz	3.2 @Frequency 1.00e+6 Hz	IEC 60250
	3.5 @Frequency 100 Hz	3.5 @Frequency 100 Hz	IEC 60250
Dielectric Strength	39.0 kV/mm	991 kV/in	K20/P50; IEC 60243-1
Dissipation Factor	0.0070 @Frequency 100 Hz	0.0070 @Frequency 100 Hz	IEC 60250
	0.010 @Frequency 1.00e+6 Hz	0.010 @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	60.0 - 80.0 Â°C	140 - 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	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding and Extrusion	

## Contact Songhan Plastic Technology Co.,Ltd.

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