Styrolution LuranÂ® 378 P Crystal Clear Transparent SAN

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

Material Notes:

Description: Easy-flow grade with enhanced resistance to chemicals.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-Crystal-Clear-Transparent-SAN.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/inÂ³	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	23Â°C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	
Melt Flow	21.6 g/10 min @Load 10.0 kg, Temperature 220 Â°C	21.6 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ISO 1133
	24.84 g/10 min @Load 21.6 kg, Temperature 200 Â°C	24.84 g/10 min @Load 47.6 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ISO 2039-2
Ball Indentation Hardness	178 MPa @Load 36.5 kg, Time 30.0 sec	25800 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	3.80 GPa	551 ksi	ISO 527-1/-2
Flexural Strength	135 MPa	19600 psi	ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/mÂ²	0.952 ft-lb/inÂ²	ISO 180/A
Charpy Impact Unnotched	1.90 J/cmÂ² @Temperature 23.0 Â°C	9.04 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eU
Charpy Impact, Notched	0.200 J/cmÂ² @Temperature 23.0	0.952 ft-lb/inÂ²	ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	Â°C	@Temperature 73.4 Â°F	
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 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	38.9 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-1/-2
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÂ²-Â°F	DIN 52612-1
Maximum Service Temperature, Air	85.0 Â°C	185 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	101 Â°C	214 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	89.0 Â°C	192 Â°F	ISO 75-1/-2
Vicat Softening Point	107 Â°C	225 Â°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

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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	2.7 @Frequency 1.00e+6 Hz	2.7 @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	0.0050	IEC 60250

Electrical Properties	Metric	English	Comments
	@Frequency 100 Hz 0.0080 @Frequency 1.00e+6 Hz	@Frequency 100 Hz 0.0080 @Frequency 1.00e+6 Hz	IEC 60250

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	Transparent 77768	
	Transparent 77769	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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