

Styrolution Luran® 348 Q Crystal Clear Transparent 77850 SAN

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

Material Notes:

Description: Highly transparent grade with low natural color. 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-348-Q-Crystal-Clear-Transparent-77850-SAN.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	
Melt Flow	20.52 g/10 min	20.52 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	29.16 g/10 min	29.16 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 200 °C	@Load 47.6 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	77	77	ISO 2039-2
Ball Indentation Hardness	160 MPa	23200 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	3.60 GPa	522 ksi	ISO 527-1/-2
Flexural Strength	115 MPa	16700 psi	ISO 178
Izod Impact, Notched (ISO)	1.50 kJ/m ²	0.714 ft-lb/in ²	ISO 180/A
Charpy Impact Unnotched	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.150 J/cm ²	0.714 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 $^{\circ}\text{C}$	@Temperature 73.4 - 176 $^{\circ}\text{F}$	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² - $^{\circ}\text{F}$	DIN 52612-1
Maximum Service Temperature, Air	85.0 $^{\circ}\text{C}$	185 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	99.0 $^{\circ}\text{C}$	210 $^{\circ}\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	86.0 $^{\circ}\text{C}$	187 $^{\circ}\text{F}$	ISO 75-1/-2
Vicat Softening Point	105 $^{\circ}\text{C}$	221 $^{\circ}\text{F}$	VST B50; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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	$\geq 1.00\text{e}+15$ ohm	$\geq 1.00\text{e}+15$ ohm	IEC 60093
Dielectric Constant	2.8	2.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	2.9	2.9	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0040	0.0040	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0070	0.0070	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 $^{\circ}\text{C}$	392 - 482 $^{\circ}\text{F}$	Injection Molding

Mold Temperature Processing Properties	40.0 - 80.0 °C Metric	104 - 176 °F English	Injection Molding Comments
Drying Temperature	80.0 °C	176 °F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	Pre-drying

Descriptive Properties	Value	Comments
Color	Transparent 77850	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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