

Styrolution Luran® S KR 2867 C WU Colored ASA+PC

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC) , Polycarbonate/ASA Alloy, Unreinforced

Material Notes:

Description: Easy flowing injection molding grade containing bromine-, chlorine- and antimony-free flame retardant. 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-S-KR-2867-C-WU-Colored-ASAPC.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Equilibrium; ISO 62
	0.40 % @Time 86400 sec	0.40 % @Time 24.0 hour	
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23°C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	
Melt Flow	53.55 g/10 min	53.55 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	120 MPa	17400 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength, Yield	61.0 MPa	8850 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	50 %	50 %	Nominal, 50 mm/min; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM D256
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	1.60 J/cm ²	7.61 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	65.0 - 85.0 µm/m-°C	36.1 - 47.2 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	DIN 52612-1
Maximum Service Temperature, Air	90.0 °C	194 °F	
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	ISO 75-1/-2
Vicat Softening Point	105 °C	221 °F	VST/B/50; ISO 306
	110 °C	230 °F	VST/A/50; ISO 306
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	3.1	3.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0060	0.0060	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.010	0.010	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	250 V	250 V	Test Liquid A; IEC 60112

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	Injection Molding
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	Injection Molding
Drying Temperature	85.0 - 95.0 °C	185 - 203 °F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	Pre-drying

Descriptive Properties	Value	Comments
Color	Black 89828	
	Gray 48350	
	Natural	
	White 36925	
	White 36975	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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