

Styrolution Luran® S KR 2861/1 C Colored ASA+PC

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

Material Notes:

Description: Grade with high heat resistance for injection molding and extrusion. Applications: Interior and exterior automotive parts, and electrical housings. 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-28611-C-Colored-ASAPC.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	Equilibrium; ISO 62
	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	0.25 %	0.25 %	23°C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	
Melt Flow	16.24 g/10 min	16.24 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	95.0 MPa	13800 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength, Yield	53.0 MPa	7690 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal, 50 mm/min; ISO 527-1/-2
Elongation at Yield	4.9 %	4.9 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-1/-2
Flexural Strength	78.0 MPa	11300 psi	ISO 178
Poissons Ratio	0.28	0.28	Calculated
Shear Modulus	0.900 GPa	131 ksi	ISO 6721-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 179/1eJ Comments
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	1600 MPa	232000 psi	ISO 899-1
	@Strain <=0.500 %	@Strain <=0.500 %	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 - 90.0 µm/m-°C	38.9 - 50.0 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	DIN 52612-1
Maximum Service Temperature, Air	110 °C	230 °F	
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	106 °C	223 °F	ISO 75-1/-2
Vicat Softening Point	120 °C	248 °F	VST/B/50; ISO 306
	136 °C	277 °F	VST/A/50; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60707
	@Diameter 4.00 mm	@Diameter 0.157 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Dielectric Strength Electrical Properties	38.0 kV/mm Metric	965 kV/in English	K20/P20- IEC 60243-1 Comments
Dissipation Factor	0.0060	0.0060	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	225 V	225 V	Test Liquid A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 280 °C	482 - 536 °F	Extrusion, Plates
	260 - 300 °C	500 - 572 °F	Injection Molding
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	Injection Molding
Drying Temperature	100 - 110 °C	212 - 230 °F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	Pre-drying

Descriptive Properties	Value	Comments
Color	Black 35914	
	Black 89828	
	Natural	
	White 31425 Q105	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding and Extrusion	

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