

Styrolution Luran® S KR 2864 C Colored ASA+PC

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

Material Notes:

Description: Easy flowing injection molding grade with heat resistance for parts with thin walls and/or with adverse flowpath/wall thickness ratios.Applications: Mobile phone 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-2864-C-Colored-ASAPC.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption	0.60 %	0.60 %	Equilibrium; ISO 62
	0.25 %	0.25 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	0.18 %	0.18 %	23Â°C/50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	
Melt Flow	28.75 g/10 min	28.75 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 260 Â°C	@Load 11.0 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	ISO 2039-1
	@Load 36.5 kg, Time 30.0 sec	@Load 80.5 lb, Time 0.00833 hour	
Tensile Strength, Yield	63.0 MPa	9140 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal, 50 mm/min; ISO 527-1/-2
Elongation at Yield	4.6 %	4.6 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Flexural Strength	100 MPa	14500 psi	ISO 178
Poissons Ratio	0.33	0.33	Calculated
Shear Modulus	0.980 GPa	142 ksi	ISO 6721-2
Izod Impact, Notched	7.00 J/cm	13.1 ft-lb/in	ASTM D256
	NB	NB	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	7.00 J/cmÂ²	33.3 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 - 90.0 Âµm/m-Â°C	38.9 - 50.0 Âµin/in-Â°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÂ²- Â°F	DIN 52612-1
Maximum Service Temperature, Air	105 Â°C	221 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	124 Â°C	255 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	105 Â°C	221 Â°F	ISO 75-1/-2
Vicat Softening Point	120 Â°C	248 Â°F	VST/B/50; ISO 306
	134 Â°C	273 Â°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	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Dielectric Strength	38.0 kV/mm	965 kV/in	K20/P20; IEC 60243-1
Dissipation Factor	0.0060	0.0060	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.012	0.012	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	260 - 300 Â°C	500 - 572 Â°F	Injection Molding
Mold Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	Injection Molding
Drying Temperature	100 - 110 Â°C	212 - 230 Â°F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	Pre-drying

Descriptive Properties	Value	Comments
Color	Black 89828	
	Gray 42730	
	Natural	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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