

LURAN S KR2863C

Acrylonitrile Styrene Acrylate / Polycarbonate (ASA/PC)

TECHNICAL DATASHEET

DESCRIPTION

The product line Luran® SC, comprising blends of ASA with PC, shows in general high heat and high impact resistance and long-term property retention. Its UV resistance is not only sufficient for all kind of interior applications – incl. unpainted surfaces in light colors – but also for exterior parts with medium weatherability requirements. Luran® S KR2863C provides the highest heat performance among the Luran® SC grades and shows a very low residual profile for very sensitive interior applications in e.g. automotive applications.

FEATURES

- High flowability
- Heat resistance
- Impact strength
- Color fastness
- Low emission

APPLICATIONS

- Unpainted automotive interior: overhead consoles
- Automotive exterior trim : mirror housings, exterior pillars & trims, spoilers
- Housings for electrical & electronic devices
- Electrical and electronic components, switches, house automation

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 260 °C/5 kg	ISO 1133	cm ³ /10 min	20
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	70
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m ²	17
Tensile Modulus	ISO 527	MPa	2500
Tensile Stress at Yield, 23 °C	ISO 527	MPa	62
Tensile Strain at Yield, 23 °C	ISO 527	%	4.9
Tensile Stress at Break, 23 °C	ISO 527	MPa	62
Tensile Strain at Break, 23 °C	ISO 527	%	> 50
Nominal Strain at Break, 23 °C	ISO 527	%	> 50
Flexural Modulus, 23 °C	ISO 178	MPa	2500
Flexural Strength, 23 °C	ISO 178	MPa	93
Hardness, Ball Indentation	ISO 2039-1	MPa	110
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	130

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Property, Test Condition	Standard	Unit	Values
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	109
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	130
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	70 - 90
Thermal Conductivity	ISO 22007-4	W/(m K)	0.17
Other Properties			
Density	ISO 1183	kg/m ³	1160
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	HB
Glow wire test (GWFI), 2.0 mm	IEC 60695-2-12	°C	650
Water Absorption, Saturated at 23 °C	ISO 62	%	0.6
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.16
Processing			
Melt Temperature Range	ISO 294	°C	260 - 300
Mold Temperature Range	ISO 294	°C	60 - 90
Drying Temperature	-	°C	100 - 110
Drying Time	-	h	2 - 4
Linear Mold Shrinkage	ISO 294-4	%	0.3 - 0.7