

Luran S KR2867C WU

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 KR2867C WU is a V0 flame-protected grade based on phosphorus flame retardants. It can be easily processed and provides good mechanical properties.

FEATURES

- Balanced properties
- Flame retardant
- High flowability
- Colour fastness
- Low emission

APPLICATIONS

- Housings for electrical & electronic devices
- Electrical and electronic components, switches, house automation
- Electrical sockets
- Housings for electronics & household devices

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 260 °C/5 kg	ISO 1133	cm ³ /10 min	45
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	16
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m ²	6
Tensile Modulus	ISO 527	MPa	2600
Tensile Stress at Yield, 23 °C	ISO 527	MPa	61
Tensile Strain at Yield, 23 °C	ISO 527	%	4
Tensile Stress at Break, 23 °C	ISO 527	MPa	52
Tensile Strain at Break, 23 °C	ISO 527	%	> 115
Nominal Strain at Break, 23 °C	ISO 527	%	50
Flexural Modulus, 23 °C	ISO 178	MPa	2600
Flexural Strength, 23 °C	ISO 178	MPa	90
Hardness, Ball Indentation	ISO 2039-1	MPa	120
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	105

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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	96
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	100
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	65 - 85
Other Properties			
Density	ISO 1183	kg/m ³	1190
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	V0
Glow wire test (GWFI), 2.0 mm	IEC 60695-2-12	°C	960
Water Absorption, Saturated at 23 °C	ISO 62	%	0.4
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.15
Processing			
Melt Temperature Range	ISO 294	°C	260 - 280
Mold Temperature Range	ISO 294	°C	40 - 60
Drying Temperature	-	°C	85 - 95
Drying Time	-	h	2 - 4
Linear Mold Shrinkage	ISO 294-4	%	0.3 - 0.7