

# Luran S KR2867CWU

Acrylonitrile Styrene Acrylate / Polycarbonate (ASA/PC)

## TECHNICAL DATASHEET

### DESCRIPTION

Luran® S KR2867CWU is a blend of ASA and PC with enhanced flowability. It particularly offers flame retardancy including V0 classification.

### FEATURES

- Highest flowability
- V0 classification

### APPLICATIONS

- Office equipment

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	25
Melt Volume Rate, 260 °C/5 kg	ISO 1133	cm <sup>3</sup> /10 min	45
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m <sup>2</sup>	15
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m <sup>2</sup>	6
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m <sup>2</sup>	40
Charpy Notched Impact Strength, -30° C	ISO 179	kJ/m <sup>2</sup>	6
Tensile Stress at Yield, 23° C	ISO 527	MPa	61
Tensile Strain at Yield, 23° C	ISO 527	%	4
Tensile Modulus	ISO 527	MPa	2600
Elongation at Break (MD)	ISO 527	%	50
Flexural Strength	ISO 178	MPa	90
Hardness, Ball Indentation	ISO 2039-1	MPa	120
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50N, 50°C/h)	ISO 306	°C	105
Vicat Softening Temperature, VST/A/50 (10N, 50°C/h)	ISO 306	°C	110
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 <sup>-6</sup> /°C	65 - 85

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Thermal Conductivity	DIN 52612-1	W/(m K)	0.19
<b>Electrical Properties</b>			
Dielectric Constant (100 Hz)	IEC 60250	-	3.1
Dissipation Factor (100 Hz)	IEC 60250	10 <sup>-4</sup>	60
Dissipation Factor (1 MHz)	IEC 60250	10 <sup>-4</sup>	100
Volume Resistivity	IEC 60093	Ohm*m	1E13
Surface Resistivity	IEC 60093	Ohm	1e+014
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1190
Water Absorption, Saturated at 23°C	ISO 62	%	0.4
Moisture Absorption, Equilibrium 23°C/50% RH	ISO 62	%	0.15
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.5 - 0.9
Melt Temperature Range	ISO 294	°C	260 - 300
Mold Temperature Range	ISO 294	°C	80
Injection Velocity	ISO 294	mm/s	200
Drying Temperature		°C	85 - 95
Drying Time		h	2 - 4

Typical values for uncolored products

## SUPPLY FORM

Luran® SC is delivered in the form of cylindrical or spherical pellets. The bulk density of the pellets is from 0.55 to 0.65 g/cm<sup>3</sup>. Values may differ for special grades. Standard Packaging unit: 25 kg PE-bag on palette, shrunk or wrapped with PE film. In addition, delivery in larger units of up to 1000 kg (IBC = Intermediate Bulk Container) or silo trucks can be arranged. In dry areas with normal temperature control, Luran SC pellets can be stored for relatively long periods of time without any change in mechanical properties. With unstable colors, however, storage over a number of years can give rise to some change in color. Under poor storage conditions, Luran SC absorbs moisture, but this can be removed by drying.

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## PRODUCT SAFETY

No adverse effects on the health of processing personnel have been observed where the products are correctly processed and the production areas are suitably ventilated. For styrene, alpha-methylstyrene, acrylonitrile, and butyl acrylate the maximum allowable workplace concentrations must be observed according to the pertaining national regulations. In Germany, the following limit values are valid TRGS 900 (Aug. 2004): styrene, MAK-value: 20 ml/m<sup>3</sup>; alpha-methylstyrene, MAK-value: 100 ml/m<sup>3</sup>; acrylonitrile, TRK-value: 3 ml/m<sup>3</sup>, and butyl acrylate, MAK-value: 2 ml/m<sup>3</sup> (1.7.2004). According to EU directive 67/548/EEC, Annex I (2001), acrylonitrile is classified as carcinogenic, category 2 ('substances which should be regarded as if they are carcinogenic to man'). Experience has shown that when Luran® SC is processed correctly with appropriate ventilation, the levels are far below the limits mentioned above. Inhalation of the vapors of degradation products which can arise on severe overheating of the materials or during purging out should be avoided. Further information can be found in the Luran SC safety data sheets.

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