

Luran S KR2868C

Acrylonitrile Styrene Acrylate / Polycarbonate (ASA/PC)

TECHNICAL DATASHEET

DESCRIPTION

Luran S KR2868C is an easy flowing blend of ASA and PC with high impact strength at low temperature for auto-motive body panels. It allows a high surface quality and can easily be painted.

FEATURES

- High impact strength
- High flow ability
- Heat resistance

APPLICATIONS

- Truck door extensions
- Truck cabin parts

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	-
Melt Volume Rate, 260 °C/5 kg	ISO 1133	cm ³ /10 min	20
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m ²	100
Charpy Notched Impact Strength, -30 °C	ISO 179	kJ/m ²	15
Tensile Stress at Yield, 23 °C	ISO 527	MPa	60
Tensile Strain at Yield, 23 °C	ISO 527	%	4.6
Tensile Modulus	ISO 527	MPa	2400
Flexural Strength, 23 °C	ISO 178	MPa	80
Hardness, Ball Indentation	ISO 2039-1	MPa	110
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	118
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	130
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	103
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	123
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ (-)/°C	70 - 90
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17

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Electrical Properties			
Volume Resistivity	IEC 60093	Ohm*m	1E12
Surface Resistivity	IEC 60093	Ohm	1E13
Other Properties			
Density	ISO 1183	kg/m ³	1150
Water Absorption, Saturated at 23 °C	ISO 62	%	0.70
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.25
Processing			
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
Drying Temperature		°C	100
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/cm³. 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.

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/m³; alpha-methylstyrene, MAK-value: 100 ml/m³; acrylonitrile, TRK-value: 3 ml/m³, and butyl acrylate, MAK-value: 2 ml/m³ (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 over-heating of the materials or during purging out should be avoided. Further information can be found in the Luran® SC safety data sheets.

DISCLAIMER

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