INEOS STYROLUTION

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, 260 °C/5 kg	ISO 1133	cm³/10 min	20
Mechanical Properties			
Tensile Modulus	ISO 527	MPa	2400
Tensile Stress at Yield, 23 °C	ISO 527	MPa	60
Tensile Strain at Yield, 23 °C	ISO 527	%	4.6
Flexural Strength, 23 °C	ISO 178	MPa	80
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	100
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	15
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
Electrical Properties			

Contact us:
Phone +49 (2133) 9309 – 168
INSTY.emea@ineos.com
www.ineos-styrolution.com

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Property, Test Condition	Standard	Unit	Values
Volume Resistivity	IEC 62631-3-1	Ohm*m	10^{12}
Surface Resistivity	IEC 62631-3-1	Ohm	10^{13}
Other Properties			
Density	ISO 1183	kg/m³	1150
Water Absorption, Saturated at 23 °C	ISO 62	%	0.7
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.25
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
Molding shrinkage, free, longitudinal	-	%	0.3 - 0.7

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 follow-ing 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 lev-els 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

The aforementioned data shall constitute the agreed contractual quality of the product sold by INEOS Styrolution at the time of passing of risk. INEOS Styrolution does not make any further warranty, representation or guarantee of any kind, express or implied, regarding the suitability of the product for any particular purpose or application and INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.

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