

DESCRIPTION

Luran® S KR2950, an ASA/PMMA-blend, provides easy coloring and good scratch resistance. Therefore Luran® S KR2950 is especially suitable for the production of plastics moldings in brilliant colors with high gloss.

FEATURES

- Good UV resistance
- Enhanced scratch resistance
- Deep color impression

APPLICATIONS

- Writing articles
- Cosmetics
- High gloss household appliances

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	10
Melt Volume Rate, 220 °C/21.6 kg	ISO 1133	cm ³ /10 min	17
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m ²	9
Charpy Notched Impact Strength, -30 °C	ISO 179	kJ/m ²	3
Charpy Unnotched, 23 °C	ISO 179	kJ/m ²	120
Charpy Unnotched, -30 °C	ISO 179	kJ/m ²	54
Tensile Stress at Yield, 23 °C	ISO 527	MPa	49
Tensile Strain at Yield, 23 °C	ISO 527	%	3.6
Tensile Modulus	ISO 527	MPa	2100
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	91
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	103
Electrical Properties			
Volume Resistivity	IEC 60093	Ohm*m	1E13
Surface Resistivity	IEC 60093	Ohm	1E15
Optical Properties			

Luran S KR2950

Acrylonitrile Styrene Acrylate / Acrylic (ASA/PMMA)

TECHNICAL DATASHEET

Property, Test Condition	Standard	Unit	Values
Refractive Index, Sodium D Line	ISO 489	-	1.540
Other Properties			
Density	ISO 1183	kg/m ³	1100
Water Absorption, Saturated at 23°C	ISO 62	%	0.7
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	240 - 280
Mold Temperature Range	ISO 294	°C	40 - 80
Drying Temperature		°C	80
Drying Time		h	2 - 4

Typical values for uncolored products

SUPPLY FORM

Luran® S 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 S 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 S 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 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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