INEOS STYROLUTION

Luran S KR2859

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL DATASHEET

DESCRIPTION

Luran® S KR 2859, a stiff extrusion product. Versatile grade for profile and sheet extrusion as protective cap layer.

FEATURES

- High stiffness
- High impact strength

APPLICATIONS

- Profile extrusion
- Sheet extrusion
- Protective cap layer

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	12
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	11
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	4
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	160
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m²	80
Tensile Stress at Yield, 23 °C	ISO 527	MPa	55
Tensile Strain at Yield, 23 °C	ISO 527	%	3.6
Tensile Strain at Break, 23 °C	ISO 527	%	7
Tensile Modulus	ISO 527	MPa	2500
Tensile Creep Modulus (1000h)	ISO 899	MPa	1200
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	98
Coefficient of Linear Thermal Expansion	ISO 11359	10^(-6)/°C	80 - 110
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
Other Properties			
Density	ISO 1183	kg/m³	1070
Processing			

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Property, Test Condition	Standard	Unit	Values
Melt Temperature Range	ISO 294	°C	210 - 230
Mold Temperature Range	ISO 294	°C	60

Typical values for uncolored products

SUPPLY FORM

Luran® S KR 2859 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, 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; 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® S 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® S safety data sheets.

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