

Luran SAN C

Styrene Acrylonitrile (SAN)

TECHNICAL DATASHEET

DESCRIPTION

Luran SAN C is an injection molding grade of SAN with medium impact strength and high flow.

FEATURES

- Excellent transparency
- Easy flow
- Medium impact strength
- Food contact
- Good surface appearance

APPLICATIONS

- Food blenders
- Water tank
- Tumblers
- Household appliances

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	23
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	2
Charpy Unnotched, 23 °C	ISO 179	kJ/m ²	-
Tensile Stress at Yield, 23 °C	ISO 527	MPa	68
Tensile Strain at Break, 23 °C	ISO 527	%	3.2
Tensile Modulus	ISO 527	MPa	3700
Flexural Strength, 23 °C	ISO 178	MPa	111
Flexural Modulus, 23 °C	ISO 178	MPa	3800
Hardness, Rockwell	ISO 2039-2	R scale	126
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	-
Vicat Softening Temperature, B/2 (120 °C/h, 50N)	ASTM D 1525	°C	104
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	101
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	103
Optical Properties			

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Light Transmission at 550 nm	ASTM D 1003	%	87 - 88
Other Properties			
Density	ISO 1183	kg/m ³	1080
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.3 - 0.4

Typical values for uncolored products

SUPPLY FORM

Luran is delivered in the form of cylindrical and lenticular 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 paper bag. 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 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 absorbs moisture, but this can be removed by drying.

PRODUCT SAFETY

Given appropriate processing of the products and suitable ventilation measures in production areas, no adverse effects on the health of process operators have been found. Workplace limits for styrene and acrylonitrile, as given in the national listings applicable, must be adhered to. The values currently applicable in Germany under TRGS 900 (issue of October, 2002) for maximum workplace concentrations are as follows. Styrene: 20 ml/m³ = 86 mg/m³; acrylonitrile: 3 ml/m³ = 7 mg/m³. Appendix I of Directive 67/548/EWG and TRGS 905 (issue of October, 2002) classify acrylonitrile in carcinogenic category II (substances which should be regarded as carcinogenic in humans). Experience has shown that during appropriate processing of Luran with suitable ventilation the values obtained are well below the limits mentioned above. TRGS 402 (Germany) can be used for determining and assessing the concentrations of hazardous substances in the air within working areas. Inhalation of gaseous degradation products, such as those which may arise on severe overheating of the material or during pumped evacuation, must be avoided. Further information can be found in our Luran safety data sheets.

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