

Luran SAN 51

Styrene Acrylonitrile (SAN)

TECHNICAL DATASHEET

DESCRIPTION

Luran SAN 51 is an injection molding grade of SAN with excellent chemical resistance and toughness.

FEATURES

- Good transparency
- Very good chemical resistance
- Toughness

APPLICATIONS

- Battery housings
- Lighters
- Fan blade
- Tooth brush handles

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	15
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 Strain at Break, 23 °C	ISO 527	%	3.8
Tensile Modulus	ISO 527	MPa	3800
Flexural Strength, 23 °C	ISO 178	MPa	125
Flexural Modulus, 23 °C	ISO 178	MPa	3900
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	106
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	102
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	103
Optical Properties			
Light Transmission at 550 nm	ASTM D 1003	%	87 - 88
Other Properties			

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Density	ISO 1183	kg/m ³	1080
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.3 - 0.4