

Luran S 797SE

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL DATASHEET

DESCRIPTION

Luran® S 797SE is suitable for extrusion applications. It provides the highest impact toughness within the product line.

FEATURES

- Highest impact strength
- Suitable for extrusion

APPLICATIONS

- Surf boards
- Truck cabin parts
- Roof tiles

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	5.5
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	30
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m ²	10
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m ²	40
Charpy Notched Impact Strength, -30 °C	ISO 179	kJ/m ²	9
Tensile Stress at Yield, 23 °C	ISO 527	MPa	42
Tensile Strain at Yield, 23 °C	ISO 527	%	3.5
Tensile Modulus	ISO 527	MPa	2000
Tensile Creep Modulus (1000h)	ISO 899	MPa	1100
Elongation at Break (MD)	ISO 527	%	11
Flexural Strength, 23 °C	ISO 178	MPa	60
Hardness, Shore D	ISO 868	-	83
Hardness, Ball Indentation	ISO 2039-1	MPa	65
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	90
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	104
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	95

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Property, Test Condition	Standard	Unit	Values
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	100
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	80 - 110
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
Electrical Properties			
Dielectric Constant (100 Hz)	IEC 60250	-	3.8
Dissipation Factor (100 Hz)	IEC 60250	10 ⁻⁴	90
Dissipation Factor (1 MHz)	IEC 60250	10 ⁻⁴	260
Volume Resistivity	IEC 60093	Ohm*m	1E12
Surface Resistivity	IEC 60093	Ohm	1e+013
Optical Properties			
Light Transmission at 550 nm	ASTM D 1003	%	90
Haze	ASTM D 1003	%	<1
Other Properties			
Density	ISO 1183	kg/m ³	1070
Bulk Density (with external lubricant)		kg/m ³	590
Water Absorption, Saturated at 23 °C	ISO 62	%	1.65
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.35
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.5 - 0.9
Drying Temperature		°C	80
Drying Time		h	2 - 4