INEOS STYROLUTION

Luran S KR2864C

Acrylonitrile Styrene Acrylate / Polycarbonate (ASA/PC)

TECHNICAL DATASHEET

DESCRIPTION

Luran® S KR2864C is a blend of ASA and PC offering high heat resistance, good impact strength and enhanced flowability.

FEATURES

- High flowability
- High heat resistance
- High impact strength

APPLICATIONS

- Truck fenders
- Truck cabin parts
- Truck body panels

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 260 °C/5 kg	ISO 1133	cm³/10 min	25
Mechanical Properties			
Tensile Modulus	ISO 527	MPa	2600
Tensile Stress at Yield, 23 °C	ISO 527	MPa	63
Tensile Strain at Yield, 23 °C	ISO 527	%	4.6
Nominal Strain at Break, 23 °C	ISO 527	%	> 50
Flexural Strength, 23 °C	ISO 178	MPa	100
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	60
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	11
Hardness, Ball Indentation	ISO 2039-1	MPa	110
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	120
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	134
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	105
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	124
Coefficient of Linear Thermal Expansion	ISO 11359	10^{-6}/°C	70 - 90
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
Electrical Properties			

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Relative Permittivity (100 Hz)	IEC 62631-2-1	-	3.1
Relative Permittivity (1 MHz)	IEC 62631-2-1	-	3
Dissipation Factor (100 Hz)	IEC 62631-2-1	10^{-4}	60
Dissipation Factor (1 MHz)	IEC 62631-2-1	10^{-4}	120
Volume Resistivity	IEC 62631-3-1	Ohm*m	10^{12}
Surface Resistivity	IEC 62631-3-1	Ohm	10^{13}
Other Properties			
Density	ISO 1183	kg/m³	1150
Water Absorption, Saturated at 23 °C	ISO 62	%	0.6
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.18
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	HB
Processing			
Melt Temperature Range	ISO 294	°C	260 - 300
Mold Temperature Range	ISO 294	°C	60 - 90
Drying Temperature	-	°C	100 - 110
Drying Time	-	h	2 - 4
Molding shrinkage, free, longitudinal	-	%	0.3 - 0.7