

Luran S KR2858G3

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL DATASHEET

DESCRIPTION

Luran® S acrylonitrile styrene acrylate (ASA) polymers feature high surface quality and good impact strength including enhanced colour fastness. The products deliver superior long-term performance when exposed to UV irradiation and additionally provide excellent chemical resistance. Luran® S KR2858G3 is a 15% glass fiber reinforced ASA grade offering enhanced heat resistance and superior rigidity.

FEATURES

- Long-term property retention
- Rigidity
- UV resistance

APPLICATIONS

- Housings for electrical & electronic devices
- Housings for electronics & household devices
- Door & window frames

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	5
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	7
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m ²	5
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m ²	28
Tensile Modulus	ISO 527	MPa	6600
Tensile Stress at Break, 23 °C	ISO 527	MPa	110
Tensile Strain at Break, 23 °C	ISO 527	%	2.5
Nominal Strain at Break, 23 °C	ISO 527	%	2.5
Flexural Modulus, 23 °C	ISO 178	MPa	5200
Flexural Strength, 23 °C	ISO 178	MPa	140
Hardness, Ball Indentation	ISO 2039-1	MPa	170
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	115
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	110
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	115
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	30

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Property, Test Condition	Standard	Unit	Values
Other Properties			
Density	ISO 1183	kg/m ³	1180
Glass Fibre content	-	%	15
Water Absorption, Saturated at 23 °C	ISO 62	%	1.4
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.3
Processing			
Melt Temperature Range	ISO 294	°C	240 - 280
Mold Temperature Range	ISO 294	°C	40 - 95
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7