

Luran S KR2950

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 KR2950 is an ASA/PMMA-blend providing brilliant colors, high surface gloss and enhanced scratch resistance..

FEATURES

- Good colourability
- High gloss
- Long-term property retention
- Scratch resistance
- UV resistance

APPLICATIONS

- Household applications
- Cosmetic packaging
- Pens and pencils

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	10
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	9
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m ²	3
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m ²	160
Tensile Modulus	ISO 527	MPa	2100
Tensile Stress at Yield, 23 °C	ISO 527	MPa	49
Tensile Strain at Yield, 23 °C	ISO 527	%	3.6
Nominal Strain at Break, 23 °C	ISO 527	%	9
Flexural Modulus, 23 °C	ISO 178	MPa	2050
Flexural Strength, 23 °C	ISO 178	MPa	63
Hardness, Ball Indentation	ISO 2039-1	MPa	92
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	91
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	95.5

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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	99.9
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	91.8
Thermal Conductivity	ISO 22007-4	W/(m K)	0.16
Other Properties			
Density	ISO 1183	kg/m ³	1100
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	HB
Processing			
Melt Temperature Range	ISO 294	°C	240 - 280
Mold Temperature Range	ISO 294	°C	40 - 80
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7