INEOS STYROLUTION

Luran S 778T G2

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 778T G2 UV is an 8% glass fiber reinforced ASA with enhanced stiffness, heat stability and UV resistance.

FEATURES

- Chemical resistance
- Heat resistance
- Long-term property retention
- Rigidity
- UV resistance

APPLICATIONS

- Housings for electrical & electronic devices
- Extruded sheets & profiles
- Door & window frames

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	3.5
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	5
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	4
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	32
Tensile Modulus	ISO 527	MPa	3700
Tensile Stress at Yield, 23 °C	ISO 527	MPa	58
Tensile Strain at Yield, 23 °C	ISO 527	%	2.4
Nominal Strain at Break, 23 °C	ISO 527	%	2.7
Flexural Modulus, 23 °C	ISO 178	MPa	3400
Flexural Strength, 23 °C	ISO 178	MPa	82
Hardness, Ball Indentation	ISO 2039-1	MPa	107
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	106

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Property, Test Condition	Standard	Unit	Values
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	110.6
Coefficient of Linear Thermal Expansion	ISO 11359	10^{-6}/°C	40 - 50
Thermal Conductivity	ISO 22007-4	W/(m K)	0.175
Other Properties			
Density	ISO 1183	kg/m³	1130
Glass Fibre content	-	%	8
Processing			
Melt Temperature Range	ISO 294	°C	240 - 280
Mold Temperature Range	ISO 294	°C	60
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4