

## LURAN S 757RE

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL  
DATASHEET

## DESCRIPTION

Luran® S 757RE is a general extrusion grade with enhanced stiffness.

## FEATURES

- Enhanced stiffness
- Chemical resistance

## APPLICATIONS

- Household and sanitary appliance
- Door and window frames

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	8
Mechanical Properties			
Tensile Modulus	ISO 527	MPa	2600
Tensile Stress at Yield, 23 °C	ISO 527	MPa	56
Tensile Strain at Yield, 23 °C	ISO 527	%	3.1
Nominal Strain at Break, 23 °C	ISO 527	%	8
Tensile Creep Modulus (1000h)	ISO 899	MPa	1400
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m <sup>2</sup>	12
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m <sup>2</sup>	3
Hardness, Ball Indentation	ISO 2039-1	MPa	100
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	98
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	105
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	97
Vicat Softening Temperature, B/1 ( 120 °C/h, 10N)	ASTM D 1525	°C	101
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> /°C	80 - 110
Thermal Conductivity	ISO 22007-4	W/(m K)	0.17
Electrical Properties			

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Relative Permittivity (100 Hz)	IEC 62631-2-1	-	3.7
Relative Permittivity (1 MHz)	IEC 62631-2-1	-	3.4
Dissipation Factor (100 Hz)	IEC 62631-2-1	10 <sup>-4</sup>	90
Dissipation Factor (1 MHz)	IEC 62631-2-1	10 <sup>-4</sup>	250
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1070
Water Absorption, Saturated at 23 °C	ISO 62	%	1.65
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.35
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	HB
<b>Processing</b>			
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
Molding shrinkage, free, longitudinal	-	%	0.4 - 0.7

Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.

Please consult our local sales or technical representatives for details.

## DISCLAIMER

The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.