

# LURAN S 797SE

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 797SE is optimized for extrusion applications. This grade offers the highest impact strength within the Luran S product line.

### FEATURES

- Well extrudable
- Impact strength
- Long-term property retention
- UV resistance

### APPLICATIONS

- Flooring systems
- PVC capstock for sheets, sidings, roof tiles, gardening equipment
- Extruded sheets & profiles
- Sidings and deckings

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	5
Melt Volume Rate 220 °C/10 kg	ASTM D 1238	cm³/10 min	5.5
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	5.2
Izod Notched Impact Strength, -40 °C (-40 °F)	ASTM D 256	ft-lb/in	1.1
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	5800
Tensile Stress at Break, 23 °C	ASTM D 638	psi	4061
Tensile Modulus	ASTM D 638	psi x 10 <sup>3</sup>	265
Tensile Strain at Yield, 23 °C	ASTM D 638	%	3.2
Tensile Strain at Break, 23 °C	ASTM D 638	%	31.1
Flexural Strength, 23 °C	ASTM D 790		8270
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 <sup>3</sup>	226
Hardness, Rockwell	ASTM D 785	R scale	90
Hardness, Shore D	ASTM D 2240	-	74
<b>Thermal Properties</b>			

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Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°F	194
DTUL @ 264 psi - Annealed	ASTM D 648	°F	179
<b>Electrical Properties</b>			
Dielectric Constant at 106 CPS (1000000 Hz, 0,0394 in)	ASTM D 150	-	3.3
Volume Resistivity	ASTM D 257	-	>10 <sup>12</sup>
Surface Resistivity	ASTM D 257	-	>10 <sup>13</sup>
<b>Optical Properties</b>			
Specular Gloss, 60 °	ASTM D 523		91
Light Transmission at 550 nm	ASTM D 1003	%	91
<b>Other Properties</b>			
Density	ASTM D 792	lb/in <sup>3</sup>	1.07
Water Absorption, Saturated at 23 °C	ASTM D 570	%	1.65
<b>Processing</b>			
Linear Mold Shrinkage	ASTM D 955	in/in	0.0055
Drying Temperature	-	°F	174
Suggested Max. Regrind	-	%	30