

Luran S 776SE

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 776SE is an extrusion grade providing enhanced impact strength and matte surface appearance for extruded sheets.

FEATURES

- Well extrudable
- Long-term property retention
- Low gloss
- UV resistance

APPLICATIONS

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

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	4
Melt Volume Rate 220 °C/10 kg	ASTM D 1238	cm³/10 min	4
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	4.9
Izod Notched Impact Strength, -40 °C (-40 °F)	ASTM D 256	ft-lb/in	1
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	4780
Tensile Modulus	ASTM D 638	psi x 10 ³	239
Elongation, Failure	ASTM D 638	%	2.7
Flexural Strength, 23 °C	ASTM D 790		6810
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	241
Hardness, Rockwell	ASTM D 785	R scale	89
Hardness, Shore D	ASTM D 2240	-	60
Thermal Properties			
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°F	197
DTUL @ 264 psi - Annealed	ASTM D 648	°F	181
DTUL @ 66 psi - Annealed	ASTM D 648	°F	213

Luran S 776SE

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL DATASHEET

Property, Test Condition	Standard	Unit	Values
Electrical Properties			
Dielectric Constant at 106 CPS (1000000 Hz, 0,0394 in)	ASTM D 150	-	3.4
Volume Resistivity	ASTM D 257	-	>10 ¹²
Surface Resistivity	ASTM D 257	-	>10 ¹³
Optical Properties			
Specular Gloss, 60 °	ASTM D 523		48
Light Transmission at 550 nm	ASTM D 1003	%	90
Other Properties			
Density	ASTM D 792	lb/in ³	1.07
Water Absorption, Saturated at 23 °C	ASTM D 570	%	1.65
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.0055
Drying Temperature	-	°F	176
Suggested Max. Regrind	-	%	30