



Luran® S ASA (acrylonitrile styrene acrylate)

Luran® S ASA is an engineering plastic with exceptional resistance to weathering. Unlike many plastic materials, Luran S will retain its color and impact strength even after long term outdoor use. Luran S is often used for housing and covers on transportation equipment, outdoor machinery, and electrical equipment when colorfastness and impact resistance are required.

The following physical property information is based on typical values of the base acrylonitrile styrene acrylate resin.

Applications Include:

- Housing and covers
- Aerospace components
- Automobile parts
- Recreational equipment components
- Outdoor structural parts

Advantages of Luran® S:

- Excellent weathering resistance
- Excellent impact resistance
- Retains color and toughness even after prolonged outdoor exposure
- Resists stress cracking
- Good aesthetic qualities

Manufacturing Capabilities:

- Rod:** 1 /4" to 8" diameter
- Sheet:** 1 /16" to 6" thick
- Film:** .001" to .029" thick

Colors/Grades:

Natural Gray

*In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

	Units	ASTM Test	Result
Mechanical			
Flexural Modulus	psi	D790	272,800
Hardness—Rockwell	—	D785	R83
Izod Impact Strength			
Notched @73°F	ft•lbs/in	D256	9.0
Notched @-40°F	ft•lbs/in	D256	0.8
Tensile Elongation @break	%	D638	20
Tensile Modulus	psi	D638	319,000
Tensile Strength @yield	psi	D638	6,820
Thermal			
Coefficient of Thermal Expansion	in/in/°F	D696	5. 20x10 ⁻⁵
Flammability Rating—UL94	—	—	HB
Heat Deflection Temperature			
@66 psi	°F	D648	214
@264 psi	°F	D648	205
Electrical			
Dielectric Constant @1MHz	—	D150	3.4
Dielectric Strength	V/mil	D149	2400
Dissipation Factor @1MHz	—	D150	0.034
Surface Resistivity	ohm/sq	D257	1.0x10 ¹³
Volume Resistivity	ohm•cm	D257	1.0x10 ¹⁴
Other			
Specific Gravity	—	D792	1.07
Water Absorption@24 hours	%	D570	0.45

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