

# Lustran E112LG

Acrylonitrile Butadiene Styrene (ABS)

## TECHNICAL DATASHEET

### DESCRIPTION

Lustran® E112LG resin is a low-gloss, medium-impact extrusion grade of ABS (acrylonitrile butadiene styrene). It has good melt strength for extrusion and thermoforming, and can be easily coextruded. It is easy to color with ABS color concentrates.

### FEATURES

- Low gloss
- Medium impact
- Ease of coloring
- Good melt strength for xtrusion and thermoforming
- Easily coextruded

### APPLICATIONS

- Motor vehicle dashboards
- Interior panels and trim
- Recreational vehicles, cars, trucks, construction vehicles, forklifts and farm equipment

Property, Test Condition	Standard	Unit	Values
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	2
Izod Notched Impact Strength, -18 °C (0 °F)	ASTM D 256	ft-lb/in	1.3
Izod Notched Impact Strength, -40 °C (-40 °F)	ASTM D 256	ft-lb/in	1
Instrumented Dart Impact (total energy)	ASTM D 3763	in-lbs	264
Instrumented Dart Impact (Peak force)	ASTM D 3763	in-lbs	228
Tensile Stress at Break, 23 °C	ASTM D 638	psi	3200
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	2800
Tensile Modulus	ASTM D 638	psi x 10 <sup>3</sup>	220
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 <sup>3</sup>	210
Flexural Stress at 5% Deflection	ASTM D 790	psi	4500
<b>Thermal Properties</b>			
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	187
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	205
Coefficient of Linear Thermal Expansion	ASTM D 696	10 <sup>-4</sup> /°F	0.54
<b>Optical Properties</b>			
Specular Gloss, 60 °	ASTM D 523		< 10

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Property, Test Condition	Standard	Unit	Values
<b>Other Properties</b>			
Density	ASTM D 792	lb/in <sup>3</sup>	1.06
<b>Processing</b>			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.006
Drying Temperature	-	°F	175
Drying Time	-	h	2 - 4

Typical values for uncolored products

## SUPPLY FORM

Lustran® ABS (Acrylonitrile Butadiene Styrene) resins are available in bulk railcar, bulk truckload and 726kg box quantities.

## REGULATORY COMPLIANCE

Please refer to Styrolution web site or contact Styrolution Technical Service for further information.

## PROCESSING

To obtain an optimum balance of sheet gloss and mechanical properties, the extruder profile should be set to deliver polymers at a melt temperature between 420° and 465°F (215° and 240°C).

## PRODUCT SAFETY

Safety Data Sheets and product labels provide information concerning the health and safety precautions that must be observed when handling the Styrolution products mentioned in this publication. No adverse effects on the health of processing personnel have been observed if the products are correctly processed and the production areas are suitably ventilated. For styrene, acrylonitrile, alpha-methyl styrene, maleic anhydride and 1, 3-butadiene, the maximum allowable workplace concentrations must be observed according to current local and federal regulations. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. This information is available in safety data sheets and on product labels. If there are questions or concerns, consult your Styrolution representative or contact the Product Safety and Regulatory Affairs Department at Styrolution.

## DISCLAIMER

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