

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
Mechanical Properties			
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 ³	220
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	210
Flexural Stress at 5% Deflection	ASTM D 790	psi	4500
Thermal Properties			
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 ⁻⁴ /°F	0.54
Optical Properties			
Specular Gloss, 60 °	ASTM D 523		< 10

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