

Lustran LGA

Acrylonitrile Butadiene Styrene (ABS)



Driving Success. Together.

Technical Datasheet

DESCRIPTION

Lustran® LGA resin is a low-gloss grade of ABS (acrylonitrile butadiene styrene). This automotive injection molding grade offers an excellent balance of rigidity, impact strength, and abuse resistance.

FEATURES

- SAE J1685: ABS0111
- Low gloss
- High flow
- Abuse resistant
- Balance of rigidity and impact strength

APPLICATIONS

- Pillars
- Consoles
- Scuff plate
- Interior quarter trim panels

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	7
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	21
Mechanical Properties			
Izod Notched Impact Strength, 23°C (73°F)	ASTM D 256	ft-lb/in	3.2
Tensile Stress at Yield, 23° C	ASTM D 638	psi	5300
Tensile Modulus	ASTM D 638	psi x 10 ³	320
Flexural Modulus	ASTM D 790	psi x 10 ³	350
Flexural Stress at 5% Deflection	ASTM D 790	psi	10500
Hardness, Rockwell	ASTM D 785	R scale	105
Thermal Properties			
Vicat Softening Temperature, B/1 (120°C/h, 10N)	ASTM D 1525	°F	225
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	169
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	194
DTUL @ 264 psi - Annealed	ASTM D 648	°F	203
DTUL @ 66 psi - Annealed	ASTM D 648	°F	212
Coefficient of Linear Thermal Expansion	ASTM D 696	10 ⁻⁴ /°F	0.50
Other Properties			

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Property, Test Condition	Standard	Unit	Values
Density	ASTM D 792	-	1.05
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.006
Drying Temperature		°F	175
Drying Time		h	2-4