

Lustran Elite 1827

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Lustran® Elite 1827 resin is an injection molding grade of ABS (acrylonitrile butadiene styrene) for high-heat applications in the automotive market. It provides high heat resistance, low gloss, toughness, and easy flow for processing molded-in color parts.

FEATURES

- SAE J1685: ABS0111
- High heat resistance
- Low gloss
- Easy flow
- UL 94 HB rated

APPLICATIONS

- AB pillars
- Door panels
- Console and console trim
- Lamp housings

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	4
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	13
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	3.4
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	5700
Elongation, Failure	ASTM D 638	%	50
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	340
Flexural Stress at 5% Deflection	ASTM D 790	psi	10100
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°F	233
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	181
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	203
Coefficient of Linear Thermal Expansion	ASTM D 696	10 ⁻⁴ /°F	0.46
Other Properties			
Density	ASTM D 792	lb/in ³	1.05
Processing			

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