

Technical Information



ENLITE™ LGF 2351 NM7700019 Structural Polymer Dryblend ABS Resin

Overview

This LGF35 ABS Alloy system is developed for light weight semi-structural applications which require very high stiffness also at elevated temperatures. This system is especially suitable for structural components with high demands on dimensional stability and good chemical resistance..

Applications

- Auto Interior Parts
- Structural Parts

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.35 g/cm ³	1.35 g/cm ³	ISO 1183/A
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.52E+6 psi	10500 MPa	ISO 527-1/1
Tensile Stress (Break)	18900 psi	130 MPa	ISO 527-2/5
Tensile Strain (Break)	1.6 %	1.6 %	ISO 527-2/5
Flexural Modulus ¹	1.57E+6 psi	10800 MPa	ISO 178
Flexural Stress ¹	26800 psi	185 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	10 ft-lb/in ²	22 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	14 ft-lb/in ²	30 kJ/m ²	ISO 179/1eU
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	252 °F	122 °C	ISO 75-2/A
Vicat Softening Temperature	239 °F	115 °C	ISO 306/B50
Additional Information			
These are typical properties as measured on injection molded specimens ("dogbones") defined by ISO 3167 type 1a (L= 175 mm, center-section: 80x10x4 mm).			
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 °F	80 °C	
Drying Time	4.0 hr	4.0 hr	
Processing (Melt) Temp	491 to 536 °F	255 to 280 °C	
Mold Temperature	140 to 176 °F	60 to 80 °C	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.079 in/min (2.0 mm/min)

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