

Technical Information


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ENLITE™ LGF 2501 + MAGNUM 3416SC @ 35% Glass Loading Structural Polymer

Overview

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.36 g/cm³	1.36 g/cm³	ISO 1183
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.57E+6 psi	10800 MPa	ISO 527-1/1
Tensile Stress (Break)	21500 psi	148 MPa	ISO 527-2/5
Tensile Strain (Break)	1.8 %	1.8 %	ISO 527-2/5
Flexural Modulus	1.57E+6 psi	10800 MPa	ISO 178
Flexural Stress	29000 psi	200 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	10 ft-lb/in²	22 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	14 ft-lb/in²	30 kJ/m²	ISO 179/1eU
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	356 °F	180 °C	ISO 75-2/A
Vicat Softening Temperature	284 °F	140 °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).

Notes

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

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