



**MATERIAL
WIZARD™**

MAGIC SOLUTIONS REAL RESULTS

Examid® PA6 LGF30

Technical DataSheet | Supplied by Material Wizard



Technical DataSheet

Polyamide 6 reinforced with 30% long glass fibres (PA6 LGF30) is an advanced material developed for applications requiring high strength and stiffness. By incorporating long glass fibres of 8-10 mm in length, this polyamide provides significant advantages over traditional short glass fibre (GF30) composites. Key features of the LFT (LONG GLASSFIBER TECHNOLOGY) material include outstanding flexural strength and exceptional stiffness, making it an ideal choice for structural components subject to significant loads.

Product Type

PA (Polyamide, Nylon) > PA 6 (Nylon 6) > PA 6 LGF30

Applications/ Recommended for

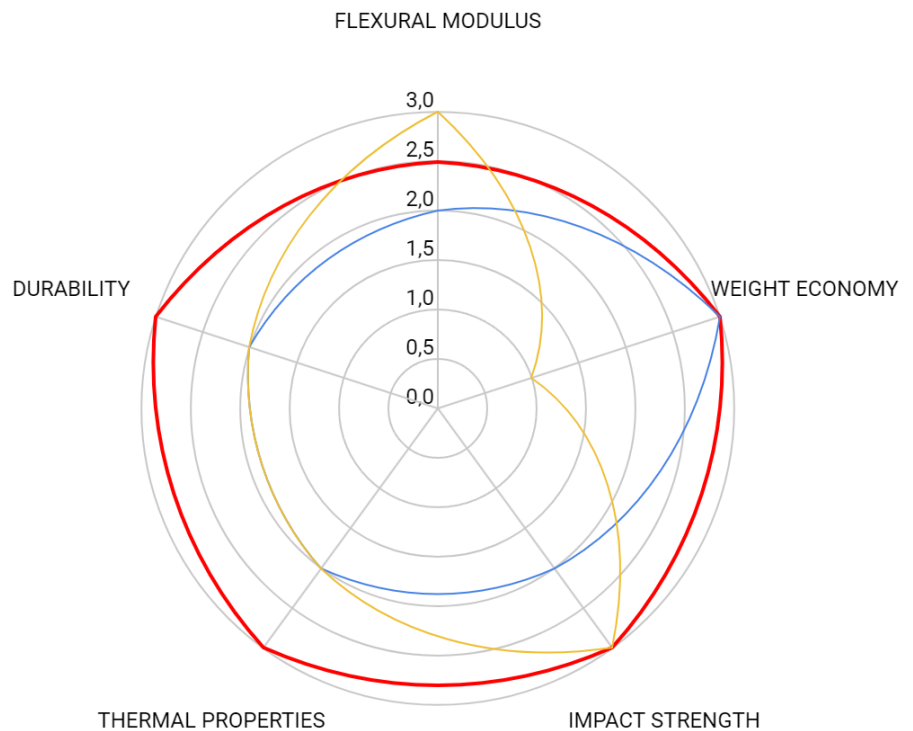
Injection Molding - thermoplastics > high-stress mechanical parts

Key Features

- High flexural strength
- High rigidity
- High impact resistance
- Improved performance characteristics
- Excellent creep resistance

Comparative Material Analysis

- Examid® PA 6 LGF30
- PA6 GF30
- PA6 GF50

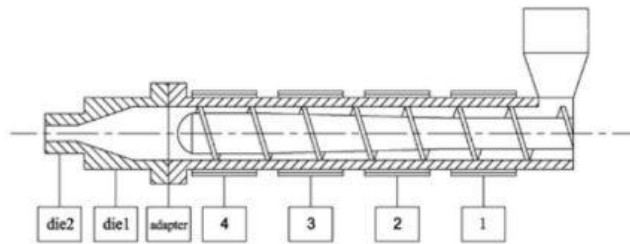


Examid® PA6 LGF30 Typical Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.32 g/cm ³	At 23°C	ISO 1183
Long glass fiber content	30%		internal
Melt Volume Flow Rate (MVR)	8 cm ³ /10 min	At 275°C, 5kg	ISO 1133
Viscosity number			ISO 307
Linear Mold Shrinkage, Flow	0.2 - 0.4 %		
Linear Mold Shrinkage, Transverse	0.4 - 0.6 %		
Mechanical	Value & Unit	Test Condition	Test Method
Elongation at Break	5%		ISO 527-1/-2
Flexural Modulus	9000 MPa	At 23°C, 2 mm/min	ISO 178
Flexural Strength	270 MPa	At 23°C, 2 mm/min	ISO 178
Impact Strength, Unnotched Charpy	70 kJ/m ²	At 23°C	ISO 179/1eA

Processing Recommendations

Processing Conditions > Injection Molding:



	Zone1	Zone2	Zone3	Zone4	Adaptor	Die1	Die2
°C	240	245	250	255	260	265	270

Processing Recommendations > Drying:

Our materials are supplied pre-dried in moisture-guarded bags. However, dry materials will rapidly absorb moisture when exposed to the atmosphere. For recyclable products, it must be dried before processing. Drying time and temperature (only necessary for bags opened for more than two hours) : 4-8 hours at 65-75°C

Disclaimer

Standard Disclaimer

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and are subject to change without notice. It is expressly understood and agreed that you assume and hereby release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent. Typical Properties data is provided as general information only. Property values are approximate and are not part of the product specifications.

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