



**MATERIAL
WIZARD™**

MAGIC SOLUTIONS REAL RESULTS

Examid® PA6 GF30 HI

Technical DataSheet | Supplied by Material Wizard



Technical DataSheet

Examid® PA6 GF30 HI is a highly reliable and improved in all parameters glass-filled polyamide 6. Amazing processability and strength allows casting high-quality products without internal stresses. High shrinkage isotropy, resistance to creep and warping. The material is impact-resistant at low temperatures.

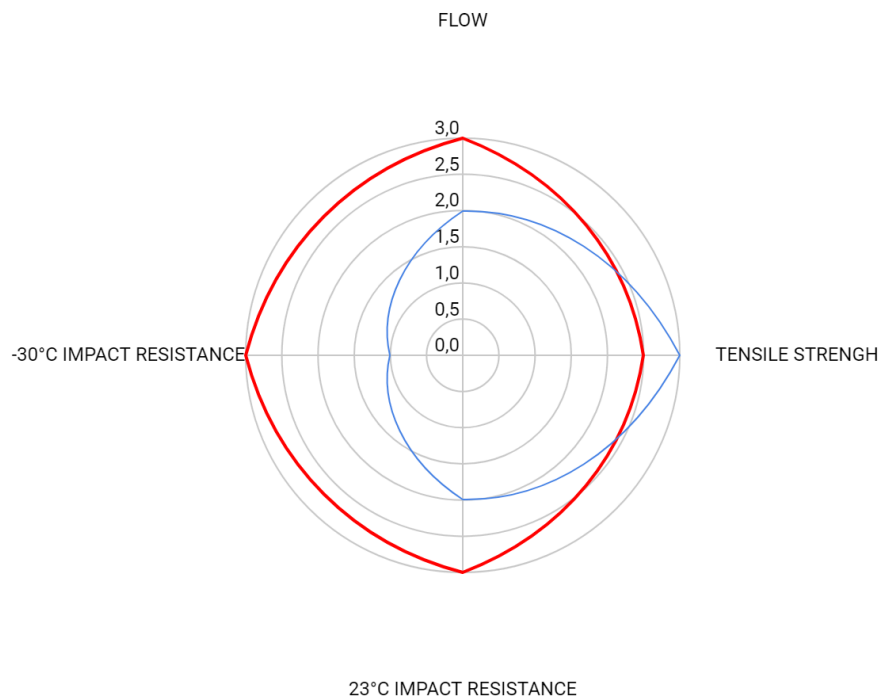
Product Type PA (Polyamide, Nylon) > PA 6 (Nylon 6)> PA6 GF (Glassfilled)

Applications/ Recommended for Railway Elements
 Miniature gears
 Structural parts
 High-precision parts
 Sports equipment

Key Features Low water absorption
 Higher elasticity
 High resistance to stress cracking and abrasion
 High fatigue strength
 Low coefficient of friction
 Chemically resistant to oils, fuels, hydraulic fluids, solvents

Comparative Material Analysis

- Examid® PA6 GF30 HI
- Standart PA6 GF30

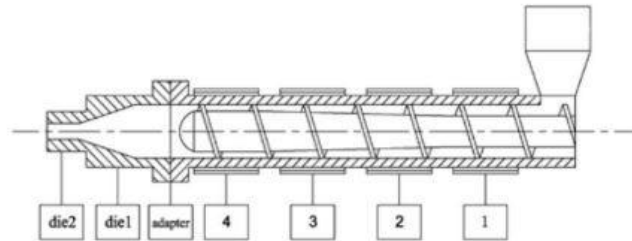


Examid® PA6 GF30 HI Typical Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.32 g/cm ³	At 23°C	ISO 1183
Glass Reinforced	26 %		
Humidity absorption	5.5 %	At 23°	
Linear Mold Shrinkage, Flow	0.2 %		
Linear Mold Shrinkage, Normal	0.4 %		
Mechanical	Value & Unit	Test Condition	Test Method
Elongation at Break	4.5 %		ISO 527-1/-2
Flexural modulus	7000 MPa		
Flexural Strength	160 MPa	At 23°C, 2 mm/min	ISO 178
Impact Strength, Unnotched Charpy	70 kJ/m ²	At 23°C	ASTM D256
Impact Strength, Unnotched Charpy	80 kJ/m ²	At -30°C	ASTM D256
Impact Strength, Notched Charpy	20 kJ/m ²	At 23°C	ASTM D256
Impact Strength, Notched Charpy	16 kJ/m ²	At -30°C	ASTM D256

Processing Recommendations

Processing Conditions > Injection Molding:



	Zone1	Zone2	Zone3	Zone4	Adaptor	Die1	Die2
°C	230	235	240	245	250	255	260

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. Typical conditions with a desiccant dryer: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more.

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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