



MATERIAL WIZARD TM

MAGIC SOLUTIONS REAL RESULTS

Examid® PA6 CF30



Technical DataSheet | Supplied by Material Wizard

Polyamide Examid PA6 CF30 by Material Wizard is a high-performance 30% carbon fiber reinforced, high modulus, heat-stabilized polyamide 6 grade. Electroconductive.

It provides outstanding mechanical properties and optimal flow. It allows fast and efficient mold filling and easy mold release. It shows an excellent balance of excellent rigidity and impact resistance. Examid PA6 CF30 is suitable for a wide range of high-performance components requiring load stress resistance and higher heat resistance.

Technical DataSheet

Product Type

PA (Polyamide, Nylon) >

PA 6 CF (carbon fiber filled)

Applications/ Recommended for

Injection Molding >

High-stress Mechanical Parts
Metal Replacement

Key Features

Good Flow
Excellent Impact Resistance
Heat Stabilized
Excellent Mechanical Properties
Electrically Conductive
Outstanding Rigidity

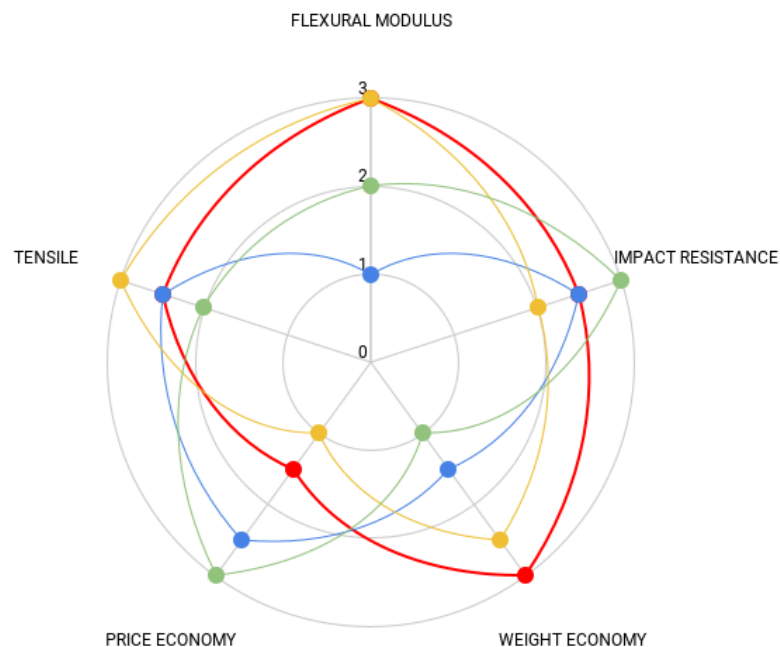
Comparative Material Analysis

● Examid PA6 CF30

● PA6-LGF30

● PA66 CF40

● PA6 GF50

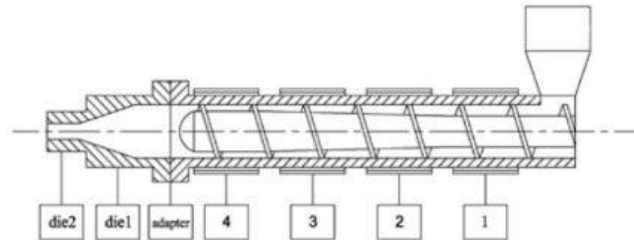


Examid PA6 CF30 Typical Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.3 g/cm ³	At 23°C	ISO 1183
Carbon fiber content	30%		internal
Melt Volume Flow Rate (MVR)	30 cm ³ /10 min	At 275°C, 5kg	ISO 1133
Linear Mold Shrinkage, Flow	0.2 - 0.4 %		internal
Linear Mold Shrinkage, Transverse	0.7 - 0.8 %		internal
Mechanical	Value & Unit	Test Condition	Test Method
Elongation at Break	2%		ISO 527-1/-2
Flexural Modulus	17000 MPa	At 23°C, 2 mm/min	ISO 178
Flexural Strength	280 MPa	At 23°C, 2 mm/min	ISO 178
Impact Strength, Unnotched Charpy	70 kJ/m ²	At 23°C	ISO 179/1eU
Tensile Strength	200 MPa	At 23°C, 2 mm/min	ISO 527

Processing Recommendations

Processing Conditions > Injection Molding:



	Zone1	Zone2	Zone3	Zone4	Adaptor	Die1	Die2
°C	220	230	240	250	260	270	280

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. It is recommended to dry the material at 100 °C for 2 hours in a circulating air or dehumidified air dryer. The moisture content must be lower than 0.2% before and during processing.

Processing Recommendations > Troubleshooting:

This Examid PA6 CF30 is designed for injection molding. Typical processing conditions are listed in the given tables and figures. You can contact us for further inquiries about products or troubleshooting.

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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