



**MATERIAL
WIZARD™**

MAGIC SOLUTIONS REAL RESULTS

Examid® PA66 CF20

Smart Carbon-Filled PA for Structural Performance at Optimized Cost

Technical DataSheet | Supplied by Material Wizard

Examid® PA66 CF20 by Material Wizard is a carbon fiber reinforced polyamide 66 compound optimized for applications where a balance between mechanical performance and cost-efficiency is critical. It demonstrates solid strength, rigidity, and thermal resistance while remaining more economical than higher-filled or hybrid-reinforced compounds.

This grade is a smart alternative for structural applications where **stable performance**, **sufficient impact resistance**, and **cost optimization** are equally important.

Technical DataSheet

Product Type

PA (Polyamide, Nylon) >

PA 66 CF (carbon fiber filled)

Applications/ Recommended for

Injection Molding >

High-stress Mechanical Parts
Metal Replacement

Key Features

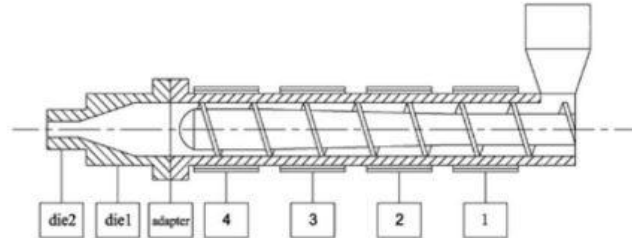
Good Flow
Balanced physical and mechanical performance
Cost-effective formulation
Reliable dimensional stability
Excellent Mechanical Properties
Outstanding Rigidity

Examid® PA66 CF20 Typical Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.25 g/cm ³	At 23°C	ISO 1183
Carbon fiber content	20%		internal
Melt Volume Flow Rate (MVR)	16 g/10 min	At 275°C, 2.16kg	ISO 1133
Linear Mold Shrinkage, Flow	0.6 %		internal
Temp. of deflection under load (HDT)	180°C	1.8 MPa	ISO 75-2/B
Surface Resistivity	10 ³ Ω		ISO 3915
Mechanical	Value & Unit	Test Condition	Test Method
Flexural Modulus	15500 MPa	At 23°C, 2 mm/min	ISO 178
Flexural Strength	190 MPa	At 23°C, 2 mm/min	ISO 178
Impact Strength, Notched Charpy	6.5 kJ/m ²	At 23°C	ISO 179/1eU
Tensile Strength	120 MPa	At 23°C, 10 mm/min	ISO 527-2
Tensile Strain at Break	3,5%	At 23°C, 10 mm/min	ISO 527-2

Processing Recommendations

Processing Conditions > Injection Molding:



	Zone1	Zone2	Zone3	Zone4	Adaptor	Die1	Die2
°C	250	255	260	265	270	280	290

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 120 °C for 4 hours in a circulating air or dehumidified air dryer. The moisture content must be lower than 0.2% before and during processing.

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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