MATERIAL WIZARD TM

MAGIC SOLUTIONS REAL RESULTS

Examid® PA66 CF30S

carbon fiber reinforced polyamide 66

Technical DataSheet | Supplied by Material Wizard

Examid® PA66 CF30S is a high-performance engineering thermoplastic based on polyamide 66 reinforced with 30% carbon fiber. The material is designed for applications requiring very high stiffness, excellent dimensional stability, low thermal expansion, and electrical conductivity.

The carbon fiber reinforcement provides outstanding mechanical rigidity and strength while significantly reducing warpage and shrinkage. Due to its stable geometry and narrow tolerance capability, this grade is well suited for precision technical components and metal replacement solutions.

Product Type	PA (Polyamide, Nylon) >	PA 66 CF (carbon fiber filled)
Applications/ Recommended for	Injection Molding >	High-stress Mechanical Parts Metal Replacement

Key Features

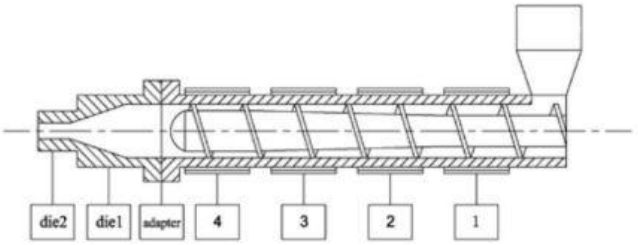
Very high tensile and flexural modulus
Excellent dimensional stability and low warpage
Low coefficient of thermal expansion
High heat resistance under load
Electrically conductive
Wear resistant surface
Suitable for precision molded parts
Effective metal replacement potential

Examid® PA66 CF30S Typical Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.28 g/cm3	At 23°C	ISO 1183
Carbon fiber content	30%		internal
Melt Volume Flow Rate (MVR)	>30 g/10 min	At 275°C, 2.16kg	ISO 1133
Linear Mold Shrinkage, Flow	0.4 %		internal
Temp. of deflection under load (HDT)	250°C	1.8 MPa	ISO 75-2/B
Mechanical	Value & Unit	Test Condition	Test Method
Flexural Modulus	18800 MPa	At 23°C, 2 mm/min	ISO 178
Flexural Strength	360 MPa	At 23°C, 2 mm/min	ISO 178
Impact Strength, Notched Charpy	12 kJ/m2	At 23°C	ISO 179/1eU
Tensile Strength	268 MPa	At 23°C, 10 mm/min	ISO 527-2
Tensile Modulus	24000 MPa	At 23°C, 10 mm/min	ISO 527-2
Tensile Strain at Break	2%	At 23°C, 10 mm/min	ISO 527-2

Processing Recommendations

Processing Conditions > Injection Molding:



	Zone1	Zone2	Zone3	Zone4	Adaptor	Die1	Die2
°C	280	285	290	295	300	305	310

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

Mold Temperature
120-140°C

Injection Pressure
60 – 90 MPa

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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