



Examid® PA66 CF40 J6

Technical DataSheet | Supplied by Material Wizard

Examid® PA66 CF40 J6 is a carbon-fiber-reinforced polyamide 66 grade designed for high mechanical performance and dimensional stability.

Reinforced with 40 % carbon fiber, this material offers exceptional stiffness and strength, low thermal expansion, and outstanding dimensional accuracy even under elevated temperatures.

It maintains its mechanical integrity under continuous thermal and mechanical stress, shows low water absorption, and demonstrates excellent fatigue and creep resistance.

Product Type

PA66 (Polyamide) > PA66 CF40

Applications/ Recommended for

High-stiffness structural parts
Lightweight mechanical housings and brackets
Automotive under-the-hood components
Precision technical components
Sports equipment
Replacement for metal
Precision gears
Precision engineering elements.

Key Features

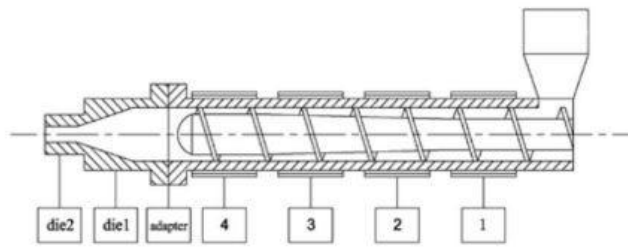
Very high stiffness and tensile strength
Excellent dimensional stability
Low thermal expansion
Good fatigue and creep resistance
Low water absorption
Heat-resistant, suitable for continuous load

Examid® PA66 CF40 J6 Typical Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.31 g/cm ³	At 23°C	ISO 1183
Carbon Fiber Content	40%		ISO 3451
Mould shrinkage	0.2 – 0.8%		internal
Water absorption	0.8%	24 h / 23 °C	ISO 62
Water absorption	5%	maximal	ISO 62
Mechanical	Value & Unit	Test Condition	Test Method
Elongation at Break	1.5%		ISO 527/2
Tensile Modulus	24000 MPa		ISO 527/2
Tensile Strength at Break	260 MPa		ISO 527/2
Izod Notched Impact Strength	15 kJ/m ²	23°C	ISO 180/1A

Processing Recommendations

Processing Conditions > Injection Molding:



	Zone1	Zone2	Zone3	Zone4	Adaptor	Die1	Die2
°C	270	275	280	285	290	295	300

Mold temperature:

80-95°C

Drying:

Our materials are supplied pre-dried in moisture-proof bags. However, dry materials quickly absorb moisture from the air. Drying time and temperature (only necessary for bags open for more than 1 hour): 3-4 hours at 90-100°C to 0.01% moisture

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.

Contact Information

Email: vyekimov@gmail.com

Website: materialwizard.com.ua

Marketplace: polyamide.prom.ua

Phone: + 38 050 323 23 21

