OMNIA PRODUCTS

PRODUCT DATA SHEET

PRECISION CHOPPED FIBERS

Standard products of precision chopped carbon, OPAN, and nickel-coated fibers are available in a variety of chop lengths and oversized surface finishes. The tables below indicate the range of standard products. Special requirements are available upon request. Toll services are also provided for customer supplied materials (fiber and/or specialty sizing).

Thermoplastic sizing

Typical applications:

- PU (Polyurethane) based sizing for a wide range of compounding applications. Compatible with PA, PET, PBT resins
- PA (Polyamide) based sizing compatible with PA, PET, PBT, PPS, ETP resins with higher temperature processing needs
- PC (Polycarbonate) phenoxy based sizing for polycarbonate based resins

Code	Chop length	Sizing	Sizing level
A0303 A0606	3 mm 6 mm	PU	2.7%
A0306 A0606	3 mm 6 mm	PA	3.5%
A0307 A0607	3 mm 6 mm	PC	3.5%

High temperature thermoplastic sizing

Typical applications:

- Polyimide based sizing for compatibility with compounding in higher temperature polymers (PEEK, PEI, PPS)

Code	Chop length	Sizing	Sizing level
A0305 A0605	3 mm 6 mm	PEEK	3.0%

Epoxy compatible sizing (no oversize)

Typical applications:

- Standard modylus carbon with no additional oversizing.
- Good for forged carbon products, sheet molding compounds, concrete repair and strengthening

Code	Chop length	Sizing	Sizing level
A0300 A0600 A0900 A1200 A2500 A5000	3 mm 6 mm 9 mm 12 mm 25 mm 50 mm	EP	1%

2/8/2026

Omnia Products
115 Certainteed Dr.
Oxford, NC 27565

info@omnia-products.com
919-514-3977
www.omnia-products.com

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PRECISION CHOPPED CARBON FIBERS

Nickel coated carbon fiber with oversizing

Typical applications:

- Nickel-coated carbon fibers are used for increasing the electrical conductivity for higher conductivity needs or EMI/RF shielding. The Ni weight percent may be specified between 20-40% based upon the application need.
- Water dispersible processes may use PVA sizing.
- Compounding processes use PU, PA, or PEEK depending on the compatibility requirements.
- Other options available upon request

Code	Chop length	Sizing	Sizing level
B0302 B1202	6 mm 12 mm	PVA	3.8%
B0303 B0603	3 mm 6 mm	PU	2.7%
B0305 B0605	3 mm 6 mm	PEEK	3.0%
B0306 B0606	3 mm 6 mm	PA	3.5%

OPAN

Typical applications:

- Fillers that are electrically non-conductive, thermally insulative, heat or flame-resistant
  - Abrasives (brake pads)
  - Fire safety
  - EV battery thermal shielding
- Any fiber length may be specified between 3 and 6 mm.

Code	Chop length	Sizing	Sizing level
POF030	3 mm	Hydrophilic or hydrophobic	0.4%
POF040	4 mm		
POF050	5 mm		
POF060	6 mm		