

barnet-carbon®

BARNET-CARBON®

**strong, light,
conductive**

barnet.com



"We are specialized in tailor made carbon solutions"

barnet-carbon® is our brand for high-performance carbon fiber products. Over the past decades, we have cultivated strong relationships while designing tailor-made carbon fiber solutions. **barnet-carbon®** offers an excellent balance of enhancing physical properties while reducing weight across a broad range of applications.

Our portfolio encompasses oversized & chopped fibers, straight chopped fibers, and milled fibers to accommodate various market requirements. We produce carbon fibers in North America and Europe, using only high-quality raw materials to uphold the highest standards.

COMPOUNDING

barnet-carbon® in plastics

barnet-carbon® fibers are tailored for low- and high-temperature thermoplastic compounding processes. Our chopped fibers, ranging from 3mm to 25mm in length, present an ideal solution for various engineered plastics. **barnet-carbon®** offers an excellent combination of physical properties, enhancing mechanical strength while reducing weight. This results in a high strength-to-weight and stiffness-to-weight ratio, thereby increasing tensile and compression strength in thermoplastic compounds.

Additionally, **barnet-carbon®** enhances electrical and thermal conductivity, along with high chemical resistance due to its chemical inertness. Engineered for easy distribution and dispersion during compounding, **barnet-carbon®** fibers ensure consistent material flow.

benefits of barnet-carbon® in plastics

- exceptional mechanical properties
- superior thermal and electric conductivity
- outstanding strength-to-weight ratio
- excellent chemical resistance
- high bulk density for a consistent material flow
- great compression strength and stiffness

OUR SUSTAINABLE TECHNICAL PRODUCTS ecoware®

Barnet also offers custom made recycled products such as

- recycled oversized carbon suitable for compounding
- milled carbon fiber available in different particle sizes of 80 – 300 µm
- straight chopped fibers for BMC or reinforcement

CUSTOMIZED SOLUTIONS

barnet-carbon® in your applications

barnet-carbon® is available as precision-cut fibers ranging from 0.5 mm to 120 mm or as milled fibers ranging from 80 µm to 300 µm. Our fibers are meticulously designed and processed to suit various end applications. For reinforcement applications such as bulk molding compounds, forged carbon, or construction, our fibers feature a compact structure to facilitate easy flow and distribution. Conversely, our fibers for wet-laid nonwovens exhibit excellent dispersion, ensuring highly conductive paper quality.

- **wetlaid nonwovens**

Great dispersion abilities create an excellent sheet formation

- **reinforcement and filler for construction and plastic**

Strong, light and easy to feed your machine

- **carded nonwoven**

Precision cut fibers to create a strong and conductive felt

ecoware® OUR SUSTAINABLE CARBON PRODUCTS

ecoware® is our brand for recycled carbon products. We have been successful in developing a recycled option for each product across our carbon portfolio. This includes our oversized & chopped fibers, straight chopped fibers for Wetlaid Nonwoven, reinforcement applications, Carded Nonwoven and also our milled fibers.

Please contact us to get more information about our recycled **barnet-carbon®**: carbon@barnet.com

OVERSIZED & CHOPPED

	product type	cut length	sizing/ level	bulk density	compatible matrix resins
standard modulus	SM-O-6B1	6 mm	PU / 2.5 %	450 g/l	PA, PP, PE, etc.
	SM-O-6B2	6 mm	PI / 1.8 %	400 g/l	PEEK, PEI, etc.
	SM-O-6B3	6 mm	PU / 2.0 %	420 g/l	PC, PPS, etc.
intermediate modulus	IM-O-6B1	6 mm	PU / 2.5 %	450 g/l	PA, PP, PE, etc.
	IM-O-6B2	6 mm	PI / 1.8 %	400 g/l	PEEK, PEI, etc.
	IM-O-6B3	6 mm	PU / 2.0 %	420 g/l	PC, PPS, etc.

WETLAID NONWOVENS

product type	cut length	modulus
SM-R-6	0,5mm-25mm	standard
IM-R-6	0,5mm-25mm	Intermediate

STRAIGHT CHOPPED FIBER FOR REINFORCEMENT

product type	cut length	modulus
SM-W-6	0,5mm-20 mm	standard
IM-W-6	0,5mm-20 mm	Intermediate

CARDED NONWOVEN

product type	cut length	modulus
SM-C-60	25mm-120mm	standard
IM-C-60	25mm-120mm	Intermediate

MILLED CARBON

product type	particle size	bulk density
DM-M-80	80 µm	500 g/l
DM-M-81	120 µm	380 g/l
DM-M82	200 µm	100 g/l

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