

BARNET-CARBON[®] IN PLASTICS

strong, light, conductive

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

barnet-carbon[®] fibers are designed for low- and high-temperature thermoplastic compounding processes. Our chopped fibers are available in lengths from 3 mm to 25 mm and are an ideal solution for a variety of engineered plastics.

barnet-carbon[®] provides an excellent combination of physical properties to increase mechanical strength with weight reduction. This leads to high strength-to-weight and stiffness-to-weight ratio, which creates

higher tensile and compression strength to thermoplastic compounds.

In addition, **barnet-carbon[®]** enhances electrical and thermal conductivity while having a high chemical resistance due to its chemical inertness.

barnet-carbon[®] fibers are designed to distribute and disperse easily during compounding, while offering a consistent flow of material.

	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.