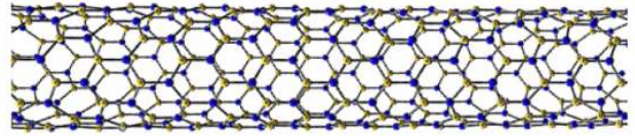
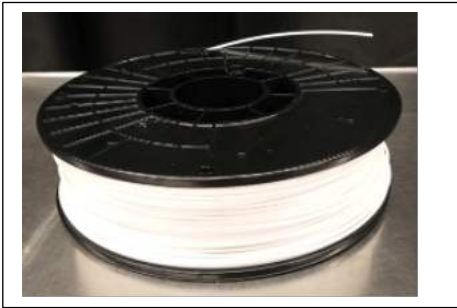




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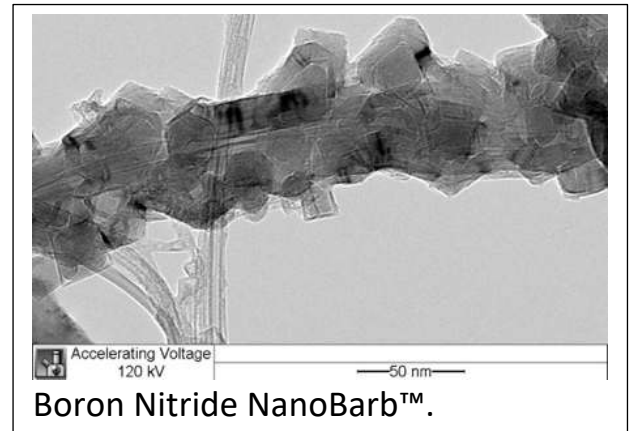
PolyBarb Filament PC (BNNBFPCA65A1)



PolyBarb Filament PCA65 is a high quality and easy to print Poly Carbonate / PBT Blend filament with printed mechanical properties approximate to chopped carbon fiber filled Nylon, but prints much easier with very fine detail and great Interlayer strength.

Nano Technology

PolyBarb Filament Poly Carbonate / PBT Blend enhanced properties are derived from a nanotechnology called Boron Nitride NanoBarbs™. The **NanoBarb™** is a nanotube with attached crystallites on the outside of the tube, creating a structure that resembles rock candy at the nanoscale. The nanotube provides a super strong backbone while the crystallites act as barbs, interlocking with the polymer matrix.



Filament size: 1.75 +/- 0.05

Print Temperatures:

Nozzle = 230°C

Bed = 100°C

Recommended drying: 3-6 hours @ 110°C

PolyBarb Filament PC (BNNBFPCA65A1)

PROPERTIES TABLE

Property	Operating Conditions	Units	Typical	Test Method
Tensile Strength	21°C	MPa	65	ASTM D638
Tensile Modulus	21°C	GPa	4.1	ASTM D638
Elong at Break	21°C	%	10	ASTM D638
Specific Gravity	21°C	g/cc	1.19	ASTM D792
Izod Impact, notched	23°C	kJ/m ²	55	ISO 180/1A
Izod Impact, notched	-30°C	kJ/m ²	35	ISO 179/1eA
HDT, 1.82 MPa, 3.2mm	N/A	°C	84	ASTM D648
HDT, 0.45 MPa, 6.4 m	N/A	°C	107	ASTM D648



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