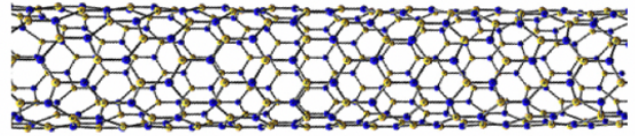
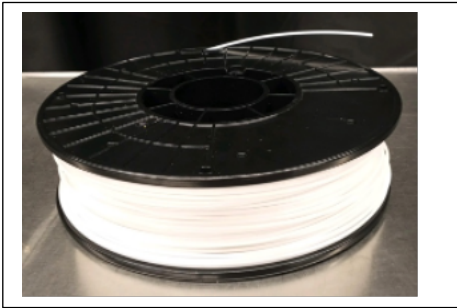




# BNNano



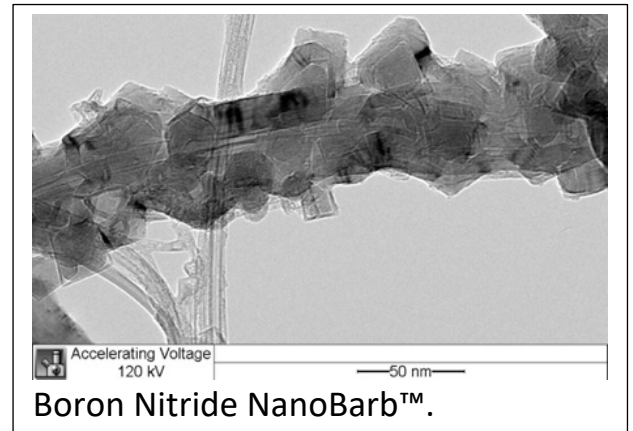
## PolyBarb Filament PC (BNNBFPCA65A1)



**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 <sup>2</sup>	55	ISO 180/1A
Izod Impact, notched	-30°C	kJ/m <sup>2</sup>	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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