

CPX

CPX is a low warp Polypropylene with good layer adhesion and extreme toughness. Co-Developed with Filament Innovations, CPX is most typically used for the prosthetic market, but also has been proven to create extremely tough parts for functional use in industrial and medical applications.

To purchase this product please visit [Filament Innovations](#) for more information.

Material Features:

- Good flexibility
- Excellent impact resistance
- Good layer adhesion



Colors:

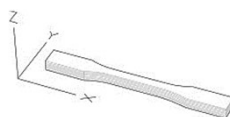
CPX is available in Natural and Black

BK1 NA1



Filament Specs.		
Size	Ø Tolerance	Roundness
1.75mm & 2.85mm	± 0.1mm +/- .020mm	≥ 95%

Material Properties		
Description	Test Method	Typical value
Specific Gravity [g/cc]	ISO 1183	0.900
Melt Mass Flow Rate [gr/10 min]	ISO 1133	0.4
Impact Strength - Izod Method at 23°C [kJ/m²]	ISO 180	35.9
Melting Temperature [°C]	ISO 527	230 ± 10
Elongation at Break [%]	ISO 527	-
Flexular Modulus [MPa]	ISO 178	810
Stress at Yield [MPa]	ISO 527	19.5
Stress at Break [MPa]	ISO 527	15.1
Strain at Yield [%]	ISO 527	17
Strain at Break [%]	ISO 527	100

Build Orientation		
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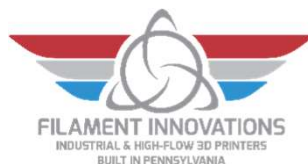
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CPX

Recommended 3D Print Processing Parameters	
Nozzle temp	240-260 °C
Chamber Temp	NA
Bed Temp	85-90 °C
Bed Material	* PEI w/BuildTak Bond for PP
Print Speed	25 mm/s
Nozzle diameter	0.25-0.6mm

Parameter changes, type of printer, and environment can affect performance and quality of final print.

*Most materials will perform better if dried first at the recommended temperatures.



To purchase this material, please visit
www.FilamentInnovations.com

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