

CPX-PP

CPX-PP is a premium-grade flexible polypropylene filament engineered specifically for the orthotics and prosthetics O&P industry. Designed with the unique demands of TLSO bracing in mind, this material delivers an optimal balance of flexibility, strength, and comfort. It combines impact resistance with a lightweight profile, ensuring that finished devices remain comfortable for extended wear without sacrificing durability.



Filament Specs.		Typical Value
Size		2.85 mm
Tolerance		+/- 0.10 mm
Physical		Typical Value
Density		0.889 g/cm cubed
Melt Mass-Flow Rate		8.0 g/10 min
Ethylene Content		4 wt%
Hardness		Typical Value
Durometer Hardness (Shore D)		50
Mechanical		Typical Value
Tensile Strength at 300%		1700 psi
Tensile Strength at Yield		2400 psi
Tensile Strength at Break		3800 psi
Tensile Strength at 100%		1600 psi
Elongation at Yield		20%
Elongation at Break		637%
Flexural Modulus - 1% Secant		58000 psi