



Ultrafuse® Reinforced Filament Comparison

Glass fiber and carbon fiber reinforced Filaments

Carbon fiber reinforced materials	Glass fiber reinforced materials
Organic	Non-organic
High orientationLarge anisotropyGood elastical propertiesHigh strength	Amorphous
Very light	Light
Electrical conductor	Electrical isolatorHigh resistivityHigh dielectrical strength
High stiffness	Thermalinsulator

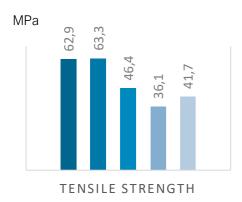
Material	Benefits	Applications
Ultrafuse® PAHT CF 15	When conditioned, highest flexural strengthLower moisture uptake than PA	ESD applications
Ultrafuse® PET CF 15	When conditioned, highest tensile strengthEasiest printability	Jigs and fixtures
Ultrafuse® PA6 GF30	When conditioned, highest impact strengthResistance to oils and greases	Automotive
Ultrafuse® PC GF30	highest heat resistanceUL94 V0 flame retardancy	Light weight applications such as drones, sport instruments
Ultrafuse® PP GF30	Very good chemical resistanceLow moisture uptake	Railway applications

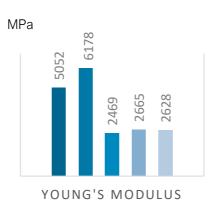
All Ultrafuse® Reinforced materials are printable on desktop printers

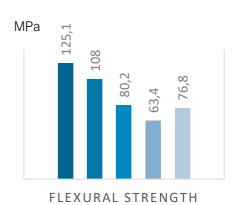


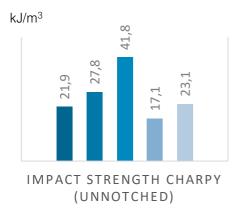


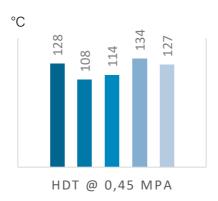
- Ultrafuse® PAHT CF 15 ■ Ultrafuse® PA6 GF 30 ■ Ultrafuse® PP GF 30
- Ultrafuse® PET CF 15 ■ Ultrafuse® PC GF 30











Other Resources

- Ultrafuse® PP GF 30 Elite Biathletes Reach Peak Performance with Athletics 3D and Forward AM
- Ultrafuse® PET CF 15 Orthoses
- Ultrafuse® PAHT CF 15 Increasing Part Stiffness of Lightweight FFF End-Use Parts by Simulation