



TDS Rev 1.0

Technical Data Sheet: CarbonX™ TPI+CF [Made using SABIC EXTEM™ TPI]

Physical Properties	Standard	Unit	Metric
Density	ISO 1183	g/cc	1.4

Mechanical Properties	Standard	Unit	Metric
Tensile Strength	ISO 527	MPa	88
Tensile Modulus	ISO 527	MPa	8750
Tensile Elongation	ISO 527	%	2
Flexural Strength	ISO 178	MPa	132
Flexural Modulus	ISO 178	MPa	8460

Thermal Properties	Standard	Unit	Metric
Glass Transition Temperature (Tg)	DSC	°C	247
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	240

Fire Testing*	Standard	Unit	Typical Value
Flamability Rating (*Base Resin)	UL 94	-	V-0 @ 0.75mm

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 460°C
Print Chamber Temp: 225°C
Specimen Orientation: XY Flat

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Disclaimer: The technical data contained on this data sheet is furnished without charge or obligation and accepted at the recipient's sole risk. This data should not be used to establish specifications limits or used alone as the basis of design. The data provided is not intended to substitute any testing that may be required to determine fitness for any specific use.

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