# JABIL

# Jabil PC 20GF

# **PRODUCT DESCRIPTION**

Jabil's Glass Fiber Reinforced Polycarbonate (GFRPC) is specifically engineered to provide exceptional strength, stiffness, and dimensional stability, making it ideal for applications that require excellent mechanical properties. With the addition of glass fibers, our GFRPC material can withstand high temperatures and is highly resistant to impact, making it ideal for use in demanding environments.

Jabil's PC-20GF contains a solid state organic wear additive that enhances the wear resistance of the material, making it ideal for applications that require long-lasting durability. This feature ensures that our GFRPC material will maintain its high-performance properties even under harsh operating conditions. Additionally, PC-20GF is easily colorable, making it customizable to match specific design requirements. This feature also enhances its aesthetic appeal, making it perfect for applications that require both performance and visual appeal.

## PROPERTIES

#### **MECHANICAL PROPERTIES<sup>1</sup>**

	Test Condition	Typical Values	Method
Tensile Modulus (MPa)	Ambient	5700	ASTM D638, Type I
Tensile Elongation at Break (%)	Ambient	4	ASTM D638, Type I
Ultimate Tensile Strength (MPa)	Ambient	97	ASTM D638, Type I
Flexural Modulus (MPa)	Ambient	5014	ASTM D790
Flexural Strength (MPa)	Ambient	160	ASTM D790
Izod Impact, notched (J/m)	Ambient	168	ASTM D256
Izod impact, un-notched (J/m)	Ambient	790	ASTM D256

<sup>1</sup> Testing conducted on bars molded at a mold temp of 90°C. Typical values are for reference only.

### THERMAL PROPERTIES

	Test Condition	Typical Values	Method
Heat Deflection Temperature (°C)	0.455 Mpa	141	DMA
Heat Deflection Temperature (°C)	1.82 Mpa	136	DMA

### **OTHER PHYSICAL PROPERTIES**

	Test Condition	Typical Values	Method
Density (g/cm3)	Ambient	1.28	ASTM D792

"Disclaimer: The information in this technical data sheet, including material properties, are obtained from testing representative samples under carefully controlled conditions and are provided for reference only. Material properties may be impacted by storage, handling, processing equipment/parameters, and product design, among other factors. The information is not a substitute for user testing to determine fitness for any specific use and the user is responsible for ensuring safe and lawful use of the product.

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## For additional information, visit jabil.com