

GR900PP-CF

GR900PP-CF is an **engineering-grade** composite made from 100% recycled carbon fiber (CF) and is designed to provide robust mechanical performance while maintaining a high degree of printability for complex structures.

GR900PP-CF provides engineering level performance without compromising any of PP's inherent properties which include light weight, water resistance (no drying needed), chemical resistance, and impact resistance.

Printed Part Properties

Parameter		Method	Units	Value
Density		D 792	g/cm³	0.91
Hardness		D 2240	Shore D	63
Ultimate Tensile Strength*		D 638	MPa	41
Tensile Elongation at Break*		D 638	%	1.3
Young’s Modulus *		D 638	MPa	6380
Flexural Modulus – Chord Modulus *		D 790	MPa	4512
Charpy Impact Strength at 23°C *		ISO 179	kJ/m²	11.6
Drop Impact Puncture Energy at 2.73 m/s, 3 mm	23°C	D 3763	J	5.2
	0°C,	D 3763	J	6.2
	-20°C	D 3763	J	5.4
Drop Impact Peak Energy at 2.73 m/s, 3 mm	23°C	D 3763	J	2.3
	0°C,	D 3763	J	3.5
	-20°C	D 3763	J	5.2
Deflection Temperature at 0.455 MPa, 12.7mm		D 648	°C	158
Vicat Softening Temperature at 10 N		D 1525	°C	150

Note: Printed part properties obtained from die cut tensile bars from a single walled box print. Tensile specimens were oriented parallel to the layer direction..

Notes

1. Recommended process conditions and printed part properties may be changed at any moment without previous communication from Braskem.
2. This resin does not contain the substance Bisphenol A (BPA, CAS: 80-05-7) in its composition.
3. For information on about safety, handling, individual protection, first aids and waste disposal, please see MSDS.
4. In case of questions regarding utilization or regulatory information, please contact our technical assistance area.

**Braskem does not guarantee printed part conditions, these represent estimated values based on internal test methods.
Properties may vary based on print conditions.**