

# MATERIAL DATA SHEET



## Grade FP10CF

### Product Description

This product is non free flow compound containing Carbon Fiber (10 % by weight) blended in PTFE Resin

### Physical Properties

Property	Test Method	Units	Value
Bulk Density	ASTM D 4745	g/cc	
Specific Gravity	ASTM D 4745		2.09
Hardness	ASTM D 2240	Shore D	56-61
Tensile Strength	ASTM D 4745	Psi	2500
Elongation	ASTM D 4745	%	300
Diametrical Shrinkage	INTERNAL	%	1.5-2.5
Recommended Moulding Pressure			350-450
Max. Sintering Temperature			370-375 °C

### Product Advantages:

Carbon Fiber lowers creep, increases flex and compressive modulus, and raises hardness. Carbon Fiber is inert to both HF and strong bases. Coefficient of Thermal Expansion is lowered, and thermal conductivity is higher for carbon Fiber PTFE Compounds. Carbon Fiber parts are lubricated with water, that is , wear rate decreases making them ideal for automotive applications in shock absorbers and water pumps.

### Typical Applications:

- Plain Bearings,
- Sealing Rings
- Compressor Piston Rings
- Moving parts operating under conditions of limited lubrication or without lubrications

### Delivery Process:

The material is sealed in two-layer plastic bag inside a rigid 30 kg drum. It is highly recommended to condition resin at 18°C for 10 hrs prior to processing to achieve optimal properties

Note: Technical Information, test data and advice provided by Fluoropolymer Blends are based on information and tests we believe to be reliable and are intended for persons with knowledge and technical skills enough to analyse test types and apply adequate safety factors for the given application. Because actual application conditions vary widely, these values are intended for comparative purposes only and the suitability of this material is ultimately left to the end user.

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