## Product Information/Technical Data Sheet

## **Product Name: PTFE GF**

Trade name:	PTFE-CFF (Carbon Filled)
Designation:	Polytetrafluroethylene
Type of polymer:	Fluropolymer
Food compliance FDA	Yes
Colour:	Natural

Amorphous carbon is one of the most inert fillers, except in oxidizing environments where glass performs better. Carbon adds to the creep resistance, increases the hardness and raises the thermal conductivity of PTFE. Carbon-filled compounds have excellent wear properties, in particular when combined with graphite. The combination of the above properties makes carbon/graphite compounds the preferred material for non-lubricated piston rings. The use of a softer carbon has the additional advantage that it lowers tool wear during machining, thus allowing machining to very close tolerances. Carbon-containing compounds have some electrical conductivity and are therefore antistatic.

## Properties

PTFE - GF have a homogeneous and dense structure. The surface is smooth with a white to light grey appearance. The filler adds to the materials stiffness and surface hardness with improved creep and chemical resistance, making it an excellent choice for bearing, seal and pressure applications.



Applications and Industries	
Gaskets	Bearing Pads
Seals, seats, packings	Electrical insulators
Piston, glide and lantern rings	Insulators
Shaft seals	
Key Features and Benefits	
Excellent chemical	Outstanding dielectric properties
Lowest co-efficient of friction	Slippery non-stick surface
High operating temperature and	Excellent UV resistance
stability	
Delivery Program	
Rod – Diameter	6mm – 150mm
Rod – Size	Sizes: 600mm <sup>2</sup> & 1200mm <sup>2</sup> (Various length)
Sheet - Thickness	3mm – 50mm
Sheet – Size	Sizes: 600mm <sup>2</sup> & 1200mm <sup>2</sup> (Various length)
Moulded Cylinder	Outside Diameter: 1—25mm diametre
Version Date: 01-06-2022	

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