

84271 Carbon Fibre FF

Material Data Sheet

Product Information

84271 Carbon Fibre FF

A hard carbon fibre filled PTFE compound.

Features

Supplied as free flow powder.

This grade has performance characteristics suitable for either hard or soft metal counter surfaces.

Benefits

Free flow powder allows for easier processing when moulding thin walled cylinders.

- Excellent creep resistance at high temperatures
- Excellent deformation resistance at high temperatures
- Good chemical resistance
- Improved surface hardness
- Good thermal conductivity
- Good electrical conductivity

Typical Applications

- Valve seats - ball and gate
- Bearings
- Bearing pads
- Piston rings (non-lubricated)
- Hydraulic / pneumatic seals
- Automotive seals (shock absorbers and water pumps)

Avoid use with Hydrofluoric Acid (HF) and strong alkalis.

Delivery Program

This product is sealed in two-layer plastic bags inside a rigid 25kg drum. It should be stored at 22°C to 25°C for 24 hours before processing.

This grade is available as:

- Free flow
- Non free flow available under product code 81271

Physical Properties

Property	Value	Unit
Colour	Black	
Bulk Density	640	g/l
Specific Gravity	2.06	g/cm ³
Hardness	63-64	Shore D
Tensile Strength	18	MPa
Elongation	280	%
Shrinkage	2.4	%

