

81271 Carbon Fibre NFF

Material Data Sheet

Product Information

81271 Carbon Fibre NFF

A hard carbon fibre filled PTFE compound.

Features

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

Benefits

This grade offers the following performance advantages:

- 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:

- Non free flow
- Free flow available under product code 84271
- Pre-sintered resin

Physical Properties

Property	Value	Unit
Colour	Black	
Bulk Density	500	g/l
Specific Gravity	2.06	g/cm ³
Hardness	63-64	Shore D
Tensile Strength	18	MPa
Elongation	280	%
Shrinkage	2.4	%
Rec Preform Pressure	40	MPa
Max Sintering Temp	370	°C

