

# 8403 Glass FF

## Material Data Sheet

### Product Information

8403, Glass FF

A 15% glass fibre filled PTFE compound.

### Features

Supplied as free flow powder.

Glass is the most commonly used PTFE filler. The glass filler used is E-glass milled fibre with a nominal diameter of 13 microns. This ensures even dispersion and optimum properties.

Glass filled mouldings have a homogenous and dense structure.

The surface is smooth with a white to light grey appearance.

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

### Benefits

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

The inclusion of glass fillers results in lower deformation under load at both high and low temperatures.

Wear resistance is significantly improved.

The inclusion of glass has little effect on electrical properties.

### Typical Applications

- Piston rings
- Valve seats
- Shaft seals
- Electrical insulators
- Bridge and pipe bearing pads
- Gaskets

### 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 resin available under product code 8103

### Physical Properties

Property	Value	Unit
Colour	White	
Bulk Density	680	g/l
Specific Gravity	2.20	g/cm <sup>3</sup>
Hardness	60-62	Shore D
Tensile Strength	20	MPa
Elongation	250	%
Shrinkage	2.2	%

