

# 8492 Carbon / Graphite FF

## Material Data Sheet

### Product Information

8492 Carbon / Graphite FF

A hard carbon / graphite filled PTFE compound.

### Features

Supplied as free flow powder.

This grade provides higher elongation properties which overcomes the brittleness of high carbon loaded compounds.

### Benefits

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

This grade offers the following performance advantages:

- A significant reduction in creep
- Improved hardness
- Improved wear resistance
- Better flexibility for ease of fitting or stretching piston rings without damage
- No lubrication necessary
- Good thermal conductivity

### Typical Applications

- Reciprocating compressor applications
- Piston rings
- Dynamic seals
- Wear and rider rings
- Thrust washers

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 8192

### Physical Properties

Property	Value	Unit
Colour	Black	
Bulk Density	620	g/l
Specific Gravity	2.05	g/cm <sup>3</sup>
Hardness	66-67	Shore D
Tensile Strength	13	MPa
Elongation	85	%
Shrinkage	2.0	%

