

# 8491 Carbon / Graphite FF

## Material Data Sheet

### Product Information

8491 Carbon / Graphite FF

A hard carbon / graphite filled PTFE compound.

### Features

Supplied as a free flow powder.

This grade is formulated for improved wear and chemical resistance.

### 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
- Excellent wear resistance
- Good thermal conductivity
- Good electrical conductivity

### Typical Applications

- Piston seal wear bands
- Sleeves
- Bearing rings (pumps)
- Bushes
- Valve seats
- Non lubricated piston rings

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 8191

### Physical Properties

Property	Value	Unit
Colour	Black	
Bulk Density	620	g/l
Specific Gravity	2.1	g/cm <sup>3</sup>
Hardness	65	Shore D
Tensile Strength	12	MPa
Elongation	80	%
Shrinkage	2.5	%

