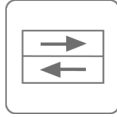


# M SEALS PTCF15-GD60

Carbon Fibre Filled PTFE



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



## Description

M Seals PTCF15-GD60 material is a Carbon Fibre reinforced PTFE material. The addition of Carbon Fibre to PTFE provides higher compressive strength, increased hardness, excellent sliding ability, lower wear and lower creep values.

PTCF15-GD60 material is commonly used for O-Ring energised composite seals and spring energised seals and can be utilised for seals in both unlubricated and lubricated hydraulic fluids, although water-based fluids with zinc additives should be avoided.

## Physical Properties

Property	Test method	Unit	Typical value
Colour			Grey/Black
Density	ASTM D792	g/cm <sup>3</sup>	2.12
Hardness	ASTM D2240	Shore D	60
Elongation at break	ASTM D4745	%	321
Tensile Strength	ASTM D4745	N/mm <sup>2</sup>	22
Minimum service temperature		°C	-200
Maximum service temperature		°C	+260

## Main Characteristics

- High compressive strength
- Good sliding ability
- Good dimensional stability
- Low creep rate
- Good wear properties

## Typical Products

- Composite seals
- Spring energised seals
- Bearing rings / guide rings
- Bushes
- Bespoke parts

## Typical Applications

Due to its excellent deformation and wear resistance, compressive strength and sliding ability, PTCF15-GD60 is an excellent material choice for composite seals, guide rings, wear rings, slideways and bearing bushes working in both lubricated and unlubricated hydraulic fluids. It is also a good choice for HF acid and strong Alkali where glass reinforced PTFE's would be unsuitable.

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: [sales.esd@m-seals.co.uk](mailto:sales.esd@m-seals.co.uk) . Web: [www.m-seals.com](http://www.m-seals.com)

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