

# DMR Material PTC15

## Carbon Reinforced PTFE



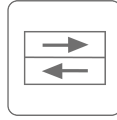
### MATERIAL DATA SHEET (Version 5.0 – 05.2019)



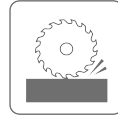
High Temperature



Chemical Resistance



Low Friction



Wear Resistance

### Description

DMR Seals PTC15 material is a PTFE which has been reinforced with a filler of Carbon. The addition of Carbon fillers to PTFE provides higher compressive strength, lower wear and lower creep values while improving sliding properties.

PTC15 PTFE material is commonly used as a bearing material and for spring energised seals. While PTC15 can work in a variety of fluids, it is particularly suitable for dry or poorly lubricated applications, such as water or water based hydraulic fluids.

### Physical Properties

Property	Test method	Unit	Typical value
Colour			Grey/Black
Density	ASTM 1457	g/cm <sup>3</sup>	2.00-2.20
Hardness	ASTM 1706	Shore D	≥58
Tensile Strength	ASTM 1457	MPa	18
Elongation at break	ASTM 1457	%	≥250
Service temperature *		°C	-200 to +260

\* (Individual testing in application conditions is mandatory)

### Main Characteristics

- Good choice for unlubricated service
- Good sliding ability
- Low creep rate
- Low wear properties

### Typical products

- Back-up rings
- Bearing bushes / Guide rings
- Spring energised seals
- Thrust washers

### Typical Applications

Due to its excellent wear resistance, good compressive strength and sliding ability, PTC15 is a good material choice for guide rings, back-up rings, spring energised seals and bearing bushes.

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