



# OZ TCMCF CARBON FIBER FILLED PTFE

## Design Description

This material is available in a mixture of PTFE virgin, carbon fillers and additives. Its colour is black with a hardness of 60 shore D.

Oz TCMCF has good dry running properties and is used for e.g. seals in compressors or lip seals.

## Features

- Used in dynamic applications at high speed
- Good loading properties
- Suitable for higher load gasket applications
- Exceptional wear life over conventional carbon grades
- Examples of applications: Seal rings, piston rings and compressor rings

Properties	Specified	Unit	Test method
Specific gravity	2.00-2.20		ASTM D792
Yield strength	10-19	MPa	ASTM D1708
Tensile strength	15-20	MPa	ASTM D1708
Elongation	150-250	%	ASTM D1708
Hardness	60-65	Shore D	ASTM D2240
Tensile modulus	590	MPa	ASTM D638
Flexural modulus	900	MPa	ASTM D790
Deformation @ 14.2 MPa, 1 HR	2-3	%	ASTM D621
Deformation @ 14.2 MPa, 24 HRS	3-4	%	ASTM D621
Permanent deformation	2-3	%	ASTM D621
Deformation @ 6.9 MPa, 1 HR	0.5-1	%	ASTM D621
Deformation @ 6.9 MPa, 24 HRS	0.5-1.5	%	ASTM D621
Permanent deformation	0.3-0.8	%	ASTM D621
Izod impact strength	80	J/m	ASTM D621
Static coefficient of friction	0.22		ASTM D1894
Dynamic coefficient of friction	0.11		ASTM D1894
Wear factor	$1.45 \times 10^{-7}$	Mm <sup>3</sup> /Nm	PIN ON DISC
Melting point	327	°C	ASTM D3418
Continuous service in air (max)	260	°C	Without load
Continuous service in air (min)	-260	°C	Without load