

# Material Data Sheet

# FFKM **chemfit** K46

**Description:** This black material provides excellent temperature resistance up to 260° C (+ 500°F) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers. Along with our Chemfit K-range, this grade is suitable for use in a wide range of applications where other polymers are not suitable. Do not use Chemfit K46 grade with molton alkali metals. Service temperature is -15°C (+5F) to +260°C (+500°F).

Colour	black	Curing System	peroxide
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## Typical Physical Values:

Properties	Typical Values	Test Standard
Hardness (°IRHD)	77	ISO 48
Tensile Strength (MPa)	23,3	ISO 37
Modulus @ 100% (MPa)	16,4	ISO 37
Elongation @ Break (%)	153	ISO 37
Tear Strength (N/mm)	25,2	ISO 34
Specific Gravity (g/cm <sup>3</sup> )	1,98	ISO 2781
Compression Set Value in Air, 25% Strain, 24 Hrs, 204°C (%)	10,3	ISO 815

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## Chemical Resistance:

Chemical Group	Rating	Chemical Group	Rating	Chemical Group	Rating
Aromatics/Aliphatic Oils	1	Amines	1	Propylene Oxide	1
Acids	1	Ethers	1	Steam	1
Alkalis	1	Ethylene Oxide	1	Hot water	1
Alcohols	1	Esters	1	Strong Oxidisers	1
Aldehydes	1	Ketones	1		

1 = suitable, little or no effect; 2 = minor or moderate effect, not maximum resistance; 3 = moderate to severe effect – may be useful in some limited applications 4 = unsuitable and not recommended – severe effect

For further information please contact meweo

Data Sheet Number	Page	Issue Date	Last revised	Issue Number	Issued by
WDB011	1	24.08.2021	11.10.2022	4	SJK