

146001009

CHEMICAL AGGRESSION RESISTANCE

The FFKM **146001009** Compound products provide unmatched strength characteristics. The chemical aggression resistance series offers the highest level of protection against O-ring degradation due to chemical and physical factors.

These compounds resist chemical and solvent attacks, reducing the risk of swelling and cracking in O rings. Additionally, they are compatible with a wide range of fluids.

The FFKM **146001009** Compound is a universal FFKM that optimally combines high-temperature resistance with exceptional performance in chemically aggressive environments.

146001009 FFKM 60 black CH

Rev. 02

GENERAL CHARACTERISTICS

General Applications:	All Chemicals
Colour:	Black
Temperature Range:	From -20°C to +275°C
Curing System:	Peroxide
Compliances:	

PHYSICAL AND MECHANICAL PROPERTIES

Property	Test STD	Unit	Value
Density	DIN EN ISO 1181-1 A	g/cm ³	2.06 ± 0.03
Hardness	DIN EN ISO 868	Shore A	60 ± 5
Tensile Strength	DIN 53504 S2	MPa	>14
Elongation	DIN 53504 S2	%	> 150

LOW TEMPERATURE RESISTANCE

Property	Test STD	Unit	Value
TR10	ASTM D1329	°C	< -1

COMPRESSION SET TESTS

Parameters	Test STD	Unit	Value
48h @ 200°C	ISO 815-1	%	<24
72h @ 200°C	ISO 815-1	%	<31

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Key

A1 → <10% Swelling
 A2 → <25% Swelling
 A3 → <35% Swelling

Notes

Chemical Resistance

Chemical	Rating
Aldehydes	A1
Alcohols	A1
Alkalis	A1
Amines (RT)	A2
Esters	A1
Ethers	A1
Hot Amines	A2
Hydrocarbons	A1
Inorganic Acids	A1
Ketones	A1
Organic Acids	A1
Strong Oxidizers	A1
Sour Gas	A2
Water/Steam	A2

AGEING PROPERTIES

Properties	Standard: Unit	Value
Hardness	Shore A	
Tensile Strength	%	
Elongation	%	
Volume	%	
Weight	%	

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Tensile Strength	%	
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Weight	%	

Disclaimer

Tests performed on test slabs. Temperatures, applications, and indications are meant as basic suggestions and valid for static applications with no other specific media and or conditions.