

147502022

FOOD&BEVERAGE + MEDICAL

The FFKM **147502022** Compound has developed this new family that is compatible with medical and food standards. The food approvals and the possible black and white colors obtained on the materials allow safe use in the food & beverage industry as well as in the medical/pharmaceutical field.

The FFKM **147502022** Compound is a white FFKM for food applications with excellent resistance to high temperatures, FDA, 3-A Sanitary, and USP Class VI certified.

147502022 FFKM 75 white HT275 FDA

Rev. 05

GENERAL CHARACTERISTICS

General Applications:	High Temperature
Colour:	White
Temperature Range:	From -10°C to +275°C
Curing System:	Peroxide
Compliances:	FDA Cfr. 177-2600
	3-A Sanitary
	USP Class VI <87 & 88>

PHYSICAL AND MECHANICAL PROPRIETIES

Property	Test STD	Unit	Value
Density	ASTM D297	g/cm ³	2.65 ± 0.03
Hardness	ASTM D2240	Shore A	75 ± 5
Tensile Strength	ASTM D412-C	MPa	> 15
Elongation	ASTM D412-C	%	>175

LOW TEMPERATURE RESISTANCE

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

COMPRESSION SET TESTS

Parameters	Test STD	Unit	Value
48h @ 200°C	ASTM D1414	%	< 20
72h @ 200°C	ASTM D1414	%	< 27

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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)	A3
Esters	A1
Ethers	A1
Hot Amines	A3
Hydrocarbons	A2
Inorganic Acids	A1
Ketones	A1
Organic Acids	A1
Strong Oxidizers	A2
Sour Gas	A2
Water/Steam	A2

AGEING PROPERTIES

Heat Aging - 70h @ 275°C

Standard: ASTM D573

Properties	Unit	Value
Hardness	Shore A	+4.5
Tensile Strength	%	-18.0
Elongation	%	+7.6
Volume	%	
Weight	%	-0.6

Heat Aging - 70h @ 300°C

Standard: ASTM D573

Properties	Unit	Value
Hardness	Shore A	+6.0
Tensile Strength	%	-37.0
Elongation	%	+21.0
Volume	%	
Weight	%	-1.3

MEK - 168h @ 40°C

Standard: ASTM D471

Properties	Unit	Value
Hardness	Shore A	-3.5
Tensile Strength	%	
Elongation	%	
Volume	%	+3.2
Weight	%	

Fuel M15 - 504h @ 40°C

Standard: ASTM D471

Properties	Unit	Value
Hardness	Shore A	-4.5
Tensile Strength	%	
Elongation	%	
Volume	%	+6.5
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.