

# Material

## FKM FP759412

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### Physical properties

	nominal range	typical values	
<b>Density</b> ASTM D297	2.10 ±0.03	2.09	g/cm <sup>3</sup>
<b>Hardness</b> ASTM D2240, Shore A	75 ±5	77	Shore
<b>Tensile strength</b> ASTM D412	---	22.4	MPa
<b>Elongation at break</b> ASTM D412	---	245	%
<b>Low temperature test</b> ASTM D1329, TR10	---	-15	°C
<b>Low Temperature</b> ISO 11357-2, DSC	---	-16.5	°C
<b>Low-temperature resistance</b> ASTM D 2137, 3 min	---	-20	
<b>Ozone Resistance</b> ISO 1431-1 A, 23 °C, 72 h, 50 pphm	---	0	Rating
<b>Compression set</b> ISO 815-1 A, 24 h, 200 °C, 40 %	---	20	%
<b>Compression set</b> ISO 815-1 B, 22 h, 150 °C	---	33	%
<b>Temperature range</b>	-30°C to 210°C      short term: 230°C		

### Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

	Country	Part	Remark	Expires
(EG) 2023/2006 (GMP)	EU		(EG) 2023/2006 (GMP)	see DoC
ADI Free			see certificate	see DoC
BPA/Phthalate free			BPA/Phthalate free	see DoC
FDA	USA	Seals	§ 177.2600	see DoC

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**Country Part**

Info ROHS and ELV

**Remark**

EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III) see DoC

**Expires**

### Change after aging in Air: 72h/250°C

Hardness (ASTM D573, Shore A)  
Tensile strength (ASTM D573)  
Elongation at break (ASTM D573)

Shore	77	76	-1
MPa	22.4	19.9	-11 %
%	245	240	-2 %

#### Typ. values

Base value After aging difference

### Change after aging in ASTM service fluid # 101: 70h/200°C

Hardness (ASTM D471, Shore A)  
Tensile strength (ASTM D471)  
Elongation at break (ASTM D471)  
volume change (ASTM D471)

Shore	77	81	4
MPa	22.4	17.9	-20 %
%	245	205.8	-16 %
%		12	

#### Typ. values

Base value After aging difference

### Change after aging in ASTM-Oil No. 3: 70h/150°C

Hardness (ASTM D471, Shore A)  
volume change (ASTM D471)

Shore	77	76	-1
%		1.8	

#### Typ. values

Base value After aging difference

### Change after aging in FAM A: 72h/23°C

Hardness (ISO 1817, Shore A)  
Tensile strength (ISO 188)  
Elongation at break (ISO 188)  
volume change (ISO 1817)

Shore	77	73	-4
MPa	22.4		%
%	245		%
%		2.9	

#### Typ. values

Base value After aging difference

### Change after aging in FAM B: 72h/23°C

Hardness (ISO 1817, Shore A)  
Tensile strength (ISO 188)  
Elongation at break (ISO 188)  
volume change (ISO 1817)

Shore	77	67	-10
MPa	22.4		%
%	245		%
%		13	

#### Typ. values

Base value After aging difference

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### Change after aging in Fluid F: 72h/23°C

Hardness (ISO 1817, Shore A)  
Tensile strength (ISO 188)  
Elongation at break (ISO 188)  
volume change (ISO 1817)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
77	76	-1	
22.4			%
245			%
	0.3		

### Change after aging in Fuel C: 70h/23°C

Hardness (ASTM D471, Shore A)  
Tensile strength (ASTM D471)  
Elongation at break (ASTM D471)  
volume change (ASTM D471)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
77	74	-3	
22.4	19	-15	%
245	220.5	-10	%
	4		

### Change after aging in IRM 903: 168h/150°C

Hardness (ASTM D471, Shore A)  
Tensile strength (ASTM D471)  
Elongation at break (ASTM D471)  
volume change (ASTM D471)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
77	74	-3	
22.4	21.3	-5	%
245	250	2	%
	1.9		

### Change after aging in Steam: 70h/140°C

Hardness (ISO 1817, Shore A)  
Tensile strength (ISO 1817)  
Elongation at break (ISO 1817)  
volume change (ISO 1817)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
77	74	-3	
22.4	20.6	-8	%
245	255	4	%
	3.6		

### Change after aging in Steam: 168h/150°C

Hardness (ASTM D471, Shore A)  
volume change (ASTM D471)

Shore  
%

Typ. values			
Base value	After aging	difference	
77	73	-4	
	4		

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### Change after aging in Water: 70h/140°C

Hardness (ISO 1817, Shore A)  
Tensile strength (ISO 1817)  
Elongation at break (ISO 1817)  
volume change (ISO 1817)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
77	73	-4	
22.4	19.7	-12 %	
245	257	5 %	
	4.3		

### Change after aging in Water: 70h/200°C

Hardness (ASTM D471, Shore A)  
Tensile strength (ASTM D471)  
Elongation at break (ASTM D471)  
volume change (ASTM D471)

Shore  
MPa  
%  
%

Typ. values			
Base value	After aging	difference	
77	81	4	
22.4	19	-15 %	
245	196	-20 %	
	8		

Lagerung nach ASTM D 471 und ASTM D 573

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### No ASTM D2000 properties available

The given values are based on a limited number of tests on standard test pieces (2mm sheets). The data from finished parts can deviate from above values depending on the manufacturing process and the component geometry.

The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

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