

# Material Data Sheet

## Fluorocarbon (FKM) 75 FKM75-SLS25

**Compound Number:** FKM75-SLS2

Cure: Peroxide

Colour: Black

Certificates: FDA 21 CFR § 177.2600; 3-A Standard Class I; WFI -

Qualification\*

\*test media see certificate

Properties	Testing Method	Testing Parameter	Value	Units
Hardness	DIN 53505	–	75±5	Shore A
Tensile strength	DIN 53504-S2	–	23.7	N/mm <sup>2</sup>
Ultimate elongation	DIN 53504-S2	–	240	%
Low temp. resistance	ASTM D 1329	TR10	-15	°C
	ASTM D 2137	brittleness 3 min. / -20 °C	pas	–
DSC glass transition	VDA 675 115/116	–	±16	°C
Compression set	ASTM D 395 B	24 h / 200 °C	18.5	%
Density	ASTM D 1817	–	2.11±0.03	g/cm <sup>3</sup>

Changes of properties after aging acc. to ASTM D 471/573 in:

Test Parameter Medium	Volume	Hardness	% Tensile Strength	% Ultimate Elongation
70 h / 250 °C	–	-1	-18	+5
ASTM Fuel C				
70 h / 23 °C	+4	-3	-15	-10
ASTM Oil No.3				
70 h / 150 °C	+1.8	-1	–	–
ASTM Service Fluid 101				
70 h / 200 °C	+12	+4	-20	-16
Water 70 h /				
200 °C	+8	+4	-15	-20
Steam 168 h /				
150 °C	+4	-3.5	–	–

Compliant with the EU-directives 2000/53/EC (ELV), 2011/65/EC (RoHS) [2002/95/EC (RoHS)] and 2006/122/EC (PFOS).  
Products made of this compound are manufactured according to 2023/2006/EG (GMP)

The results displayed in this data sheet were obtained on standard test specimens following standard test procedures. Comparisons with results obtained on finished products, e.g. O-Rings, could lead to other results due to differences in geometry and manufacturing processes. These other results do therefore not automatically contravene the data of this sheet. The evaluation of parts prior to their use in order to ensure their suitability for the intended application is subject to the end user's responsibility.