

Technical Data Sheet

Ttype of mixture	FKM 70 ShA
Name	FKM 70 ShA 019207.R05 (GREEN)
Color	Green
Basic polimer	Vinylidene Fluoride

Mechanical properties	Unit	Test method	Required values
Harndess	ShA	ISO 7619-1	70 ± 5
Density	g/cm ³	ISO 1183-1	2,00 ± 0,20
Tensile strenght	MPa	ISO 37	≥ 9,5
Elongation at brake	%	ISO 37	≥ 270
Surface resistance in as-delivered condition	[-]	IEC 62631-3-1:2015	No deflection at 5kV
Compression set (after 72h at at air; 35% compression) -	%	ISO 815-1	≤ 50
Permanent deformation at -25°C	%	ISO 815-2:2014	< 70%
Change in hardness / cold resistance	Δ ShA	ISO 815-2:2014	≤ 0
Temperature range	°C		od -30°C to +280°C

Impact on transformer oil	Unit	Test method	Required values
Colour	[-] Δ	ISO 2049:1996	Δ ≤ 1,0
Purity	[-]	IEC 60422:2013	clear
Neutralization number	mgKOH/gOil Δ	IEC 62021-2:2007	Δ ≤ 0.05 (mineral oil) Δ ≤ 0.10 (ester) Δ ≤ 0.01 (mineral oil)
Dissipation factor at 90°C	[-] Δ	IEC 60247:2004	Δ ≤ 0,10 (ester)
Corrosive sulfur (DIN 51353)	[-]	DIN 51353	Non-corrosive
Potentially corrosive sulfur IEC 62535	[-]	IEC 62535	Non-corrosive

Test at high temperature at air	Unit	Test method	Required values
Δ Harndess (72h, 130°C, at air)	ShA	ISO 7619-1	-5 ≤ Δ ≤ 5
Δ Tensile strenght (after 72h at 130°C at air)	%	ISO 37	0 ≤ Δ ≤ 5
Δ Elongation at brake (after 72h at 130°C at air)	%	ISO 37	Δ ≥ -30
Compression set (after 72 h at 130°C at air ; 35% compression)	%	ISO 815-1	≤ 50

High temperature test in ester	Unit	Test method	Required values
Δ Harndess(change after 72h at 130°C, ester)	ShA	ISO 7619-1	-5 ≤ Δ ≤ 0
Δ Weight (change after 72h at 130°C, ester)	%	ISO 1817	0 ≤ Δ ≤ 5
Δ Volume (change after 72h at 130°C, ester)	%	ISO 1817	0 ≤ Δ ≤ 5
Compression set (at elevated temperature after 72h at 130°C, ester ; 35% compress.)	%	ISO 815-1	≤ 50