

Technical Data Sheet

Ttype of mixture	FVMQ 70 ShA
Name	FVMQ 70 ShA 470105024
Color	Blue
Basic polimer	Fluoro-vinyl-methyl-siloxane

Mechanical properties	Unit	Test method	Required values
Harndess	ShA	ISO 7619-1	70 ± 5
Density	g/cm ³	ISO 1183-1	1,50 ± 0,10
Tensile strenght	MPa	ISO 37	≥ 6
Elongation at brake	%	ISO 37	≥ 150
Surface resistance in as-delivered condition	[-]	IEC 62631-3-1:2015	No deflection at 5kV
Compression set/Trajna deformacija (after 72h at at air; 35% compression) -	%	ISO 815-1	≤ 45
Permanent deformation at -60°C	%	ISO 815-2:2014	< 70%
Change in hardness / cold resistance	Δ ShA	ISO 815-2:2014	< 0
Temperature range on air	°C	-	od -60°C do +180°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)
Dissipation factor at 90°C	[-] Δ	IEC 60247:2004	Δ ≤ 0.01 (mineral oil) Δ ≤ 0.10 (ester)
Surface tension (for mineral oils)	[-]	IEC 62961:2018	≥ 28 (for mineral oil)

Test at high temperature at air	Unit	Test method	Required values
Δ Harndess (72h, 130°C, at air)	ShA	ISO 7619-1	-5 ≤ Δ ≤ 10
Δ Tensile strenght (after 72h at 130°C at air)	%	ISO 37	Δ ≥ -15
Δ Elongation at brake (after 72h at 130°C at air)	%	ISO 37	Δ ≥ -20
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