

electrical insulation material

3M™ LFTi | FI 15200

Description: 3M™ LFTi | FI 15200 is a liquid filled transformer layer insulation.

Properties: 3M™ LFTi | FI 15200 meets high performance requirements of high temperature with excellent thermal stability, offers low moisture absorption, high thermal conductivity and long term reliability.

Application: 3M™ LFTi | FI 15200 is used in liquid filled transformers.

Delivery forms: 3M™ LFTi | FI 15200 is available in a thickness of 0,127 – 0,254 mm. It can be delivered as a die-cut or customized cut, tape or roll. Other delivery forms upon customers request.

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Properties	testmethod	Unit	Value		
Nominal thickness	D-645	mm	0,127	0,178	0,254
Basis weight	D-202	g/m ²	131	175	242
Apparent density		g/cm ³	1,0	0,98	0,95
Tensile strength, MD	D-828	N/cm	35	46	67
Tensile strength, CD	D-828	N/cm	18	23	35
Elongation to break, MD	D-828	%	1,2	1,3	1,8
Elongation to break, CD	D-828	%	0,9	1,2	1,0
Elmendorf tear, MD	D-689	N	1,4	2,1	3,1
Elmendorf tear, CD	D-689	N	3,0	3,4	4,2
Oil absorption non-vacuum, impregnated	D-3394	%	51	48	43
Dielectric breakdown voltage, air	D-149	kV	1,1	1,3	1,8
Dielectric breakdown voltage mineral oil	D-149	kV	6,5	10,2	13,0
Dielectric breakdown voltage mineral oil	D-149	kVmm	51	57	51
Moisture content	D-644	%	<1	<1	<1

Please note:

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and the user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.