

Electrical insulating materials

Flexiso® RPR FI 13041

Composition: Flexiso® RPR FI 13041 is a three-ply insulation material made of polyester film and pressboard on both-sides. Flexiso® RPR FI 13041 is used in insulation class B (130 °C).

Property: Flexiso® RPR FI 13041 has a pressboard ply which has a good impregnation with impregnating and trickle resins of all insulation classes and characterizes by good bonding to all winding components. Furthermore Flexiso® RPR FI 13041 has a smooth surface and can be processed very good.

Applications: Flexiso® RPR FI 13041 is used as slot insulation, slot closure and layer insulation (for coil end and phase insulations).

Delivery forms: Flexiso® RPR FI 13041 is supplied on rolls (up to ca. 1260 mm), as reels (with a width from 6 mm) and also as feathered reels. Further formats, cuts, die-cut or formed parts are manufactured according to customer request, for example self-adhered.

Storage conditions: Flexiso® RPR FI 13041 can be stored unlimited under normal conditions (20°C, 50% rel. air humidity) in the original packaging. The material should be protected against humidity, dryness and direct sun- und UV-radiation as well as heat influence.

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Property	Test method	Unit	Value					
			0.12 ±	0.15 ±	0.20 ±	0.25 ±	0.30 ±	0.35 ±
Nominal thickness	IEC 641	mm %	15	15	15	10	10	10
Film thickness		μ	36	36	36	36	36	36
Area weight	IEC 641	g/m ²	150 ± 12%	170 ± 12%	270 ± 12%	315 ± 12%	390 ± 12%	430 ± 12%
Yield	IEC 641	m ² /kg	6.6	5.9	3.7	3.2	2.6	2.3
Standard sleeve	IEC 641	mm	70	70	70	70	70	70
Tensile strength								
MD	IEC 641	N/mm ²	≥100	≥135	≥180	≥225	≥270	≥300
CD	IEC 641	N/mm ²	≥75	≥100	≥120	≥150	≥180	≥200
Elongation								
MD	IEC 641	N/10mm	≥2	≥2	≥3.0	≥5.0	≥5.0	≥5.0
CD	IEC 641	N/10mm	≥10	≥10	≥15.0	≥15.0	≥15.0	≥15.0
Dielectric strength	IEC 641	kV/mm	≥7.0	≥7.0	≥7.0	≥7.0	≥8.0	≥8.0
Shrinkage								
MD	IEC 641	%	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
CD			≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Moisture content	IEC 641	%	≤5	≤5	≤6	≤6	≤6	≤7

Property	Test method	Unit	Value					
			0.40 ±	0.50 ±	0.60 ±	0.70 ±	0.80 ±	1.0 ±
Nominal thickness	IEC 641	mm %	10	10	10	10	10	10
Film thickness		μ	36	36	36	36	36	36
Area weight	IEC 641	g/m ²	490 ± 12%	610 ± 12%	730 ± 12%	850 ± 12%	980 ±12%	1200 ± 12%
Yield	IEC 641	m ² /kg	2.0	1.6	1.4	1.2	1.0	0.8
Standard sleeve	IEC 641	mm	70	70	70	70	70	70
Tensile strength								
MD	IEC 641	N/mm ²	≥360	≥450	≥540	≥630	≥720	≥810
CD	IEC 641	N/mm ²	≥240	≥300	≥360	≥420	≥480	≥540
Elongation								
MD	IEC 641	N/10mm	≥5.0	≥5.0	≥5.0	≥5.0	≥5.0	≥5.0
CD	IEC 641	N/10mm	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0	≥15.0
Dielectric strength	IEC 641	kV/mm	≥8.0	≥8.0	≥8.0	≥8.0	≥8.0	≥8.0
Shrinkage								
MD	IEC 641	%	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
CD			≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Moisture content	IEC 641	%	≤7	≤7	≤7	≤7	≤7	≤7

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Trademark information: Flexiso® is a registered trademark of the Dr Dietrich Müller GmbH, Germany.

Please note:

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and 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.

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