

Electrical insulation materials

Flexiso® DMD FI 14003

Composition: Flexiso® DMD FI 14003 is a flexible 3-ply insulating material made of polyester film covered with a layer of impregnated fleece on both sides.

Properties: Flexiso® DMD FI 14003 has high dielectric and mechanical strength. It is tough and flexible. Additionally, it provides excellent adhesion in conjunction with impregnating materials. The outer cured resin impregnation protects the polyester film against oxidation and hydrolysis.

Applications: Flexiso® DMD FI 14003 is a class F (155°C) insulating material and it is very tough and flexible. This allows easy insertion into the slot and the spreading effect ensures a sturdy grip. The smooth surface makes Flexiso® DMD FI 14003 ideal at automatic insulating and insertion machines. Flexiso® DMD FI 14003 is used as slot insulation and for pre-shaped wedges in electric motors. Due to the special surface qualities it is also used as phase insulation. Flexiso® DMD FI 14003 is commonly used as core, interlayer and final insulation for the production of transformers.

Standard colour: Flexiso® DMD FI 14003 can be delivered in pink colour as standard. Other colours are available on request.

Dr. Dietrich Müller GmbH

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Delivery forms: Flexiso® DMD FI 14003 can be delivered as die-cut parts, components, cuts, on rolls as well as reels with a width of 4 mm. Further dimensions and delivery forms are available on request.

Property	Unit	Value							
		0.16	0.18	0.21	0.23	0.30	0.35	0.45	
Total thickness	mm	0.16	0.18	0.21	0.23	0.30	0.35	0.45	
Film thickness	µm	50	75	100	125	190	250	350	
Thickness tolerance	%	±15					±10		
Yield	m ² /kg	6.66 7	5.40 5	4.54 5	3.84 6	2.85 7	2.32 6	1.75 4	
Tolerance yield (IEC 626)	%	±12							
Basic weight	g/m ²	150	185	220	260	350	430	570	
Tolerance basic weight (IEC 626)	%	±12							
Tensile strength	N/cm	110	140	160	200	300	330	400	
Elongation	%	min. 20							
Dielectric strength	kV	6	7	9	10	15	18	22	

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.