

Electrical Insulation Material

Flexiso® DMD FI 14010

Structure: Flexiso® DMD FI 14010 is a three-layer material, which consists of a layer of polyester film that is laminated on both sides with a layer of polyester fleece fabric and impregnated with a high temperature resistant resin.

Characteristics: Flexiso® DMD FI 14010 is characterized by very good electrical and mechanical properties and low moisture absorption. The smooth surface of the material allows for auto-feeding processes and demonstrates very good adhesion properties for impregnating. Flexiso® DMD FI 14010 is used in applications of insulation class F (155°C).

Application: Flexiso® DMD FI 14010 is used for example in electrical motors as slot and phase insulation, slot closures and inter-layers and in transformers as insulation layers as well as insulation layers in various electrical appliances.

Form of Supply: Flexiso® DMD FI 14010 is available in rolls (max width 1260 mm) tapes (from 10 mm wide). Other formats, for example, blanks, die-cut and formed parts are produced to customers specifications and on request, supplied with self-adhesive.

Storage Conditions: Flexiso® DMD FI 14010 can be stored for an unlimited period under normal conditions (20°C, 50% relative humidity). The material should be protected from humidity, dryness, direct sunlight, UV radiation exposure and heat.

Flexiso® DMD FI 14010

Property	Unit	Value							
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	

Thickness	0,16	0,21	0,24	0,31	0,36	0,46	1,40
Availability	●	●	●	●	●	●	●

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

Information:

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