

## Dr. D. Mueller Flexiso® DMD FI 14010 00100 Polyester Electrical Insulation

Category : Polymer , Thermoplastic , Polyester, TP , Polyester Film

### Material Notes:

**Structure:** Flexiso® DMD, FI 14010 00100 is a flexible three layer material, consisting of a layer of polyester film, of which both sides have a layer of polyester fleece fabric and is coated with an impregnated high temperature resin. **Characteristics:** Flexiso® DMD, FI 14010 00100 is characterised by very good electrical and mechanical properties, as well as low moisture absorption and good chemical resistance. The smooth surface allows the material to be processed on automatic feeding machines and demonstrates very good adhesion properties to impregnating and trickle. Flexiso® DMD, FI 14010 00100 is used for applications in the Insulation Class F (155 °C). **Application:** Flexiso® DMD, FI 14010 00100 is used, for example, in the manufacture of electric motors as slot and phase insulations, slot wedges and spacers and in the manufacture of transformers as layer insulation as well as insulating layers in various electrical devices. **Delivery Form:** Flexiso® DMD, FI 14010 00100 is delivered in rolls (max. width 1260 mm) and tapes (from 10 mm width). Other formats include, blanks, stamped or moulded parts in accordance with customer requirements and with self adhesive. **Storage Conditions:** Flexiso® DMD, FI 14010 00100 is storable for an unlimited period under normal conditions (20 °C, 50% RH). The material should be protected from damp, lack of moisture, direct sunlight and UV radiation exposure as well as any protected heat effects. Information provided by Dr. D Mueller

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dr-D-Mueller-Flexiso-DMD-FI-14010-00100-Polyester-Electrical-Insulation.php](http://www.lookpolymers.com/polymer_Dr-D-Mueller-Flexiso-DMD-FI-14010-00100-Polyester-Electrical-Insulation.php)

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in <sup>3</sup>	100 g/m <sup>2</sup> ; IEC 626
Thickness	85.0 - 115 microns	3.35 - 4.53 mil	IEC 626
Linear Mold Shrinkage	>= 0.015 cm/cm	>= 0.015 in/in	
Linear Mold Shrinkage, Transverse	>= 0.015 cm/cm	>= 0.015 in/in	

Mechanical Properties	Metric	English	Comments
Film Elongation at Yield, MD	12 %	12 %	
Film Elongation at Yield, TD	20 %	20 %	
Film Tensile Strength at Break, MD	>= 55.0 MPa	>= 7980 psi	55 N/10mm
Film Tensile Strength at Break, TD	>= 35.0 MPa	>= 5080 psi	35 N/10mm

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	155 °C	311 °F	IEC 216

Electrical Properties	Metric	English	Comments
Dielectric Breakdown	>= 4000 V	>= 4000 V	IEC 626

Descriptive Properties	Value	Comments
Color	Light Blue	
Polyester Film ( $\mu\text{m}$ )	23	IEC 626

## Contact Songhan Plastic Technology Co.,Ltd.

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