

Dr. D. Mueller Flexiso® DMD FI 14010 00310 Polyester Electrical Insulation

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

Material Notes:

Structure: Flexiso® DMD, FI 14010 00310 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 00310 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 00310 is used for applications in the Insulation Class F (155 °C). **Application:** Flexiso® DMD, FI 14010 00310 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 00310 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 00310 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-14010-00310-Polyester-Electrical-Insulation.php

Physical Properties	Metric	English	Comments
Density	1.132 g/cc	0.04090 lb/in ³	351 g/m ² ; IEC 626
Thickness	300.7 - 319.3 microns	11.84 - 12.57 mil	IEC 626

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	>= 200 %	>= 200 %	After Shaping; IEC 626
Film Elongation at Break, TD	150 %	150 %	After Shaping; IEC 626
Film Tensile Strength at Break, MD	>= 96.8 MPa	>= 14000 psi	300 N/10mm
Film Tensile Strength at Break, TD	>= 64.5 MPa	>= 9350 psi	200 N/10mm

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

Electrical Properties	Metric	English	Comments
Dielectric Breakdown	>= 15000 V	>= 15000 V	IEC 626

Descriptive Properties	Value	Comments
Color	Light Blue	

Polyester Film (um) Descriptive Properties	190 Value	IEC 626 Comments
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