

Flexible electrical insulating material

Flexiso® FN FI 16085

Composition: Flexiso® FN FI 16085 is a polyimide film, which is coated with FEP on one or both sides.

Properties: Flexiso® FN FI 16085 is a durable and special polyimide film which withstands the destructive effects of for example ionisation. It has good humidity barrier and chemical resistance.

Applications: This insulation film can be used for example for electrical insulations for motors, transformers, lines and cables as well as coils in which the FEP coating is melting and adheres Flexiso® FN 16085 with itself or with the winding.

Standard colour: Flexiso® FN FI 16085 is delivered in amber, transparent or half transparent.

Delivery forms: Flexiso® FN FI 16085 is delivered as die-cut or formed part, cut, sheet or on rolls as well as tapes. Further delivery forms and dimensions on request.

Storage conditions: Flexiso® FN 16085 should be stored in dry rooms at room temperature and in its original packaging.

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Property	Unit	Value			
Thickness	µm	38.0	50.0	63.0	75.0
FEP, structure	µm	12.5	25.4	12.5	25.0
PI-film, structure	µm	25.4	25.4	50.0	50.0
FEP, structure	-	-			
Tensile strength	MPa	≥150	≥120	≥140	≥140
Elongation	%	≥60	≥60	≥55	≥55
Dielectric strength	MV/m	≥160	≥155	≥150	≥150
Peel strength	N/25 cm	≥6			
Surface resistance	Ω	≥1.0x10 ¹³			
Volume resistivity	Ω.cm	≥1.0x10 ¹⁵			
High voltage stability	-	2.5~3.5			
Stress factor	-	≤4.0x10 ⁻³			

Trademark information: Flexiso® is a registered trademark of the company 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.

Dr. Dietrich Müller GmbH