

Electrical Insulation Material

Flexiso® PET FI 13000

Structure: Flexiso® PET FI 13000 is a Polyethylenterephalate manufactured Electrical Insulation Film and is used as insulation material up to and including insulation class B (130°C).

Characteristics: Flexiso® PET FI 13000 is puncture and tear resistant, dimensionally stable and has excellent electrical properties. This material has good heat and cold resistance to the commonly used solvents.

Application: Flexiso® PET FI 13000 is used as intermediate and top layer insulation in transformers, chokes and relay coils. Furthermore Flexiso® PET FI 13000 is used as slot and phase insulation, slot closures and slot covers as well as insulation layers in electrical equipment and as base material for electrical insulating adhesive tape.

Standard Color: Flexiso® PET FI 13000 is manufactured in a transparent (to milky white) condition as standard.

Form of Supply: Flexiso® PET FI 13000 is available on rolls (up to ca. 1000 mm), as Tapes (from 6 mm wide), as Feathered Tapes and as Adhesive Tapes. Other formats, blanks, die-cut and formed parts are manufactured to customer specifications, also available as self-adhesive on request.

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Storage Conditions: Flexiso® PET FI 13000 has an unlimited shelf life, when stored under normal conditions (20 ° C, 50% RH).

Properties	Norm	Unit	Value					
			25	50	125	190	250	300
Total Thickness	ASTM D 882	µm	± 12%	± 12%	± 12%	± 12%	± 12%	± 12%
Area Weight	ASTM D 882	g/m ²	32	70	175	265	350	418
Area Yield	ASTM D 882	m ² /kg	31	14	5.7	3.8	2.9	2.4
Tensile Strength:								
MD	ASTM	N/mm ²	≥210	≥190	≥180	≥190	≥190	≥190
CMD	D 882		≥230	≥210	≥200	≥220	≥200	≥200
Elongation:								
MD	ASTM	%	≥130	≥140	≥150	≥190	≥210	≥210
CMD	D 882		≥110	≥120	≥130	≥140	≥170	≥180
Shrinkage								
MD	ASTM	%	≤1.3	≤1.2	≤1.1	≤1.3	≤1.3	≤1.3
CMD	D 882		≤1.0	≤1.1	≤1.0	≤1.3	≤1.3	≤1.3

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

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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.

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