

Electrical insulating materials

Flexiso® PET FI 13002

Composition: Flexiso® PET FI 13002 is an electrical insulating film made of polyethylene terephthalate and it is used as area insulating material up to and including insulation class B (130°C).

Properties: Flexiso® PET FI 13002 is tensile and break resistant, dimensionally stable and has excellent electrical properties. The material has good heat- and cold resistance against common solvents.

Application: Flexiso® PET FI 13002 is used as interlayer- or cover layer insulation in transformers, chokes and relay bobbins. Furthermore Flexiso® PET FI 13002 is used as slot- and phase insulation, slot closure and slot casing as well as insulation layer in electrical devices and as supporting material for electrical insulation adhesive tapes.

Standard colour: Flexiso® PET FI 13002 is delivered in black as standard.

Delivery forms: Flexiso® PET FI 13002 is delivered on rolls (up to ca. 1000 mm), as tapes (from a width of 6 mm), as feathered tapes and as adhesive tapes. Other formats, cuts, die-cut or formed parts can be manufactured according to customer request, also for example self-adhesive and special measurements as per request.

Dr. Dietrich Müller GmbH

Flexiso® PET FI 13002

Storage conditions: Flexiso® PET FI 13002 is storable unlimited in its original packaging under normal conditions (20°C, 50% rel. air humidity).

Property	Test method	Unit	Value						
			25	50	75	125	190	250	300
Thickness	ASTM	µm	25	50	75	125	190	250	300
	D 882	%	± 12	± 12	± 12	± 12	± 12	± 12	± 12
Surface weight	ASTM	g/m ²	32	70	105	175	265	350	418
	D 882								
Yield	ASTM	m ² /kg	31	14	9,6	5.7	3.8	2.9	2.4
	D 882								
Tensile strength									
Longitudinal	ASTM	N/mm ²	≥210	≥190	≥190	≥180	≥190	≥190	≥190
	D 882		≥230	≥210	≥200	≥200	≥220	≥200	≥200
Crosswise	ASTM								
	D 882								
Elongation									
Longitudinal	ASTM	%	≥130	≥140	≥140	≥150	≥190	≥210	≥210
	D 882		≥110	≥120	≥120	≥130	≥140	≥170	≥180
Crosswise	ASTM								
	D 882								
Shrinking									
Longitudinal	ASTM	%	≤1.3	≤1.2	≥1.1	≤1.1	≤1.3	≤1.3	≤1.3
	D 882		≤1.0	≤1.1	≥1.2	≤1.0	≤1.3	≤1.3	≤1.3
Crosswise	ASTM								
	D 882								

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

Dr. Dietrich Müller GmbH

Flexiso® PET FI 13002

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