

Electrical Insulation Materials

Flexiso® FI 16005

Structure: Flexiso® FI 16005 is an electrical insulation film which is made from polyimide.

Characteristics: Flexiso® FI 16005 is tension and tear resistant and has excellent electrical properties. This material has excellent heat and cold resistance, at high temperatures it only shows slight shrinkage and an excellent chemical resistance. Flexiso® FI 16005 is characterized by a correspondingly high thermal resistance of 230 °C and is UL 94 V-0 classified as self-extinguishing. Flexiso® FI 16005 can be laminated, metallized, die-cut, formed and coated.

Application: Flexiso® FI 16005 is used for a wide range of insulation functions in electrical engineering and electronics, such as for the insulation of windings for electric motors as slot insulation, insulation of cables and wire windings, transformer and condenser insulation.

Standard Colour: Flexiso® FI 16005 is supplied in amber.

Form of Supply: Flexiso® FI 16005 is supplied on rolls (up to 914 mm wide) as tapes (from 6 mm wide) and as feathered tapes. Other formats, blanks, die-cut and formed parts are manufactured to customer specifications, also available in self-adhesive on request.

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Storage Conditions: Flexiso® FI 16005 has an unlimited shelf life, when stored under normal conditions (20 ° C, 50% RH).

Properties	Norm	Unit	Value			
			0.05	0.125	0.025	0.075
Total thickness	-	mm	0.05	0.125	0.025	0.075
Density	ASTM D-1505-90	g/cc	1.42	1.42	1.42	-
Tensile Strength						
at 23°C	ASTM D-882-91	(psi) MPa	33.5	33.5	33.5	33.5
at 200°C	ASTM D-882-91	(psi) MPa	20.0	33.5	20.0	20.0
Elongation						
at 23°C	ASTM D-882-91	%	82	82	72	82
at 200°C	ASTM D-882-91	%	83	83	83	83
Dielectric Strength	ASTM D-149-91	(V/m) kV/mm	240	154	303	205
Dielectric Constant	ASTM D-150-92	1 kHz	3.4	3.5	3.4	3.5
Loss Factor	ASTM D-150-92	1 kHz	0.0020	0.0026	0.0020	0.0020

Trademark Information: Flexiso is a registered trademark of company Dr. Dietrich Mueller GmbH, Germany.

Please Note:

The information in this Technical Data Sheet is based on our present knowledge and experiences. It does not release the user from conducting their own trials and examinations to determine the suitability of the product for his intended use. A legally obligatory warranty of certain characteristics or the suitability for a specific targeted application cannot be derived from our data. Depending upon individual cases we recommend consultation with us. Any patent rights as well as existing laws are to be considered by the receiver of our products as their own responsibility.

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