

Electrical Insulation Materials

Apical® AV | FI 16008

Structure: Apical® AV | FI 16008 is an electrical insulation film which is made from polyimide.

Characteristics: Apical® AV | FI 16008 is tensile and tear-resistant and has excellent electrical properties. This material has excellent heat and cold resistance, shows only slight shrinkage at high temperatures and an excellent chemical resistance. Apical® AV | FI 16008 is characterized by a correspondingly high thermal resistance of 230 °C and is UL 94 V-0 classified as self-extinguishing. Apical® AV | FI 16008 can be laminated, metallized, die-cut, formed and coated.

Application: Apical® AV | FI 16008 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 color: Apical® AV | FI 16008 is supplied in amber.

Form of Supply: Apical® AV | FI 16008 is supplied on rolls (up to 914 mm) 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 as self-adhesive on request.

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Storage Conditions: Apical® AV | FI 16008 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/cm ³	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						
bei 23°C	ASTM D-882-91	%	82	82	72	82
bei 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: Apical® AV is a registered trademark of Kaneka Texas Corporation.

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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