

Dr. Dietrich Müller GmbH, Zeppelinring 18, D-26197 Ahlhorn

Electrical Insulation Materials

Kapton[®] HN FI 16010

Structure: Kapton[®] HN FI 16010 is an electrical insulation film which is made from polyimide.

Characteristics: Kapton[®] HN FI 16010 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. Kapton[®] HN FI 16010 is characterized by a correspondingly high thermal resistance of 230 °C and is UL 94 V-0 classified as self-extinguishing. Kapton[®] HN FI 16010 can be laminated, metallized, die-cut, formed and coated.

Application: Kapton[®] HN FI 16010 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: Kapton[®] HN FI 16010 is supplied in amber.

Form of Supply: Kapton[®] HN FI 16010 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.

Stand June 2011

Zeppelinring 18 | D-26197 Ahlhorn | Tel.: +49 (0) 4435 97 10 10 | Fax: +49 (0) 4435 97 10 11
info@mueller-ahlhorn.com | www.mueller-ahlhorn.com | Sitz der Gesellschaft: Ahlhorn
Geschäftsführer: Heinz-Jürgen Siebert | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093
St.-Nr.: 68/207/07677 | Zertifiziert nach DIN EN ISO 9001:2008 | UL anerkannter Repacker E341377

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- Elektroisolierstoffe
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Kapton® HN FI 16010

Storage Conditions: Kapton® HN FI 16010 has an unlimited shelf life, when stored under normal conditions (20 °C, 50% RH).

Properties	Norm	Unit	Value			
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: Kapton® HN is a registered trademark of the company DuPont.

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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