

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

Flexible electrical insulating material

Kapton® FI 16120

Composition: Kapton® FI 16020 is an electrical conductive polyimide film which is precisely filled with carbon and therefore Kapton® FI 16020 meets a controlled surface resistivity. Kapton® FI 16020 can be used in a temperature area of -270 up to +240°C and is thermal durable up to 325°C in oxygen-free area.

Properties: Kapton® FI 16020 is shatter-proof, electrical conductive, abrasion-resistant as well as hard to injure. Kapton® FI 16020 has high radiation and temperature resistance.

Application: Kapton® FI 16020 can be used in many satellite applications, for aerospace or other outer applications as well as applications which require high thermal and antistatic control.

Standard colour: Kapton® FI 16020 is delivered with a black, matt surface as standard.

Delivery forms: Kapton® FI 16020 is supplied in a thickness range of 0.025 up to 0.127 mm. Kapton® FI 16020 can also be supplied on rolls, as tape, as well as die-cut or formed part.

Stand November 2014

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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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Properties	Test method	Unit	Value
Tensile strength	ASTM D-882-91 A	Kpsi	17
Tensile modulus	ASTM D-882-91 A	Kpsi	480
Elongation at break	ASTM D-882-91 A	%	27
Initial tear resistance	ASTM D-1505-90	lb/mil	1.8
Density	ASTM D-1505-90	g/cc	1.41
UV-resistance	-	-	0.93
Emissivity 80°C normal	-	-	0.84
Emissivity 80°C hemispherical	-	-	0.78
Translucency	-	-	Opaque
Melting point polyimide	ASTM E-794-85 (1989)	°C	None
Surface resistivity	ETS 870 electrometer at 100V	Ohm ²	5
Resistance area	-	Ohm ²	0.1 - 1000

Trademark information: Kapton® is a registered trademark of the company DuPont.

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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