

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

Technical films

Separating film ETFE FM 52100

Composition: Separating film ETFE FM 52100 is a high-temperature resistant separating film which consists of ethylene and tetrafluoroethylene (ETFE).

Properties: Separating film ETFE FM 52100 is very heat-resistant to 230 °C (short-timed), it has very good tear- and puncture resistance as well as very good separating properties and chemical resistance. Separating film ETFE FM 52100 is used as a protecting film and shows good UV-resistance, high transparency, it is self-cleaning and flame retardant.

Usage: Separating film ETFE FM 52100 is mainly used in the transformer- and generator construction as well as in the manufacture of GRP- and CRP formed parts to ensure an optimal separation of mould/pressing plate. In the outer area separating film ETFE FM 52100 shows its main advantage: high transparency in covering solar panels and photovoltaic modules. Separating film ETFE FM 52100 is also used as self-cleaning protecting film in many other applications.

Standard colour: Separating film ETFE FM 52100 is delivered transparency.

Status February 2015

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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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Delivery forms: Separating film ETFE FM 52100 is delivered on rolls with a width of 1550 mm and and as cut or as die-cut part. Other delivery forms are available upon request.

Property	Test method	Unit	Value
Nominal thickness	-	µm	25
Service temperature	-	°C	-200 up to +150
Maximum short-timed service temperature	-	°C	+230
Flammability	-	-	Flame retardant
Specific density	ASTM D-792	kg/m ²	1.70 – 1.76
Yield (1 mil film)	-	m ² /kg	22.5
Flammability rating	UL-94	-	V-0
Water absorption, 24h	-	%	<0.03
Tensile strength at break	ASTM D-882	MPa	48
Elongation at break	ASTM D-882	%	300
E-Module	ASTM D-882	MPa	965
Further break resistance, 1 mil	ASTM D-1922	N	>2.9
Dielectric strength, 1 mil	ASTM D-149	kV/mm	215
Dielectric constant, 1 kHz	ASTM D-150	-	2.6
Dissipation factor, 1 kHz	ASTM D-150	-	<0.0008
Melting point	ASTM D-3418	°C	250-270
Continuous Operating Temperature	-	°C	165
Specific heat	-	J/(kg*°K)	2000
Thermal conductivity	-	W/mK	0.238
Limiting Oxygen index	ASTM D-2863	%	30
Index of refraction	ASTM D-542	-	1.40

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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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