

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

## Pressboard

### Flexiso<sup>®</sup> 3010 FI 11010

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**Structure:** Flexiso<sup>®</sup> 3010 FI 11010 is made from pure binder-free and unbleached sulphate pulp.

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**Characteristics:** Flexiso<sup>®</sup> 3010 FI 11010 is calendered and has good tensile and compressive strength as well as good compatibility and impregnation with impregnating and trickle resins. Flexiso<sup>®</sup> 3010 FI 11010 is used in applications of insulation class A (105°C).

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**Application:** Flexiso<sup>®</sup> 3010 FI 11010 is used in electrical applications as end insulation in stators and rotors and for bobbins in transformers.

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**Form of Supply:** Flexiso<sup>®</sup> 3010 FI 11010 is supplied as standard in a thickness of 0.7 to 4.0 mm, depending on the thickness 640 x 800 mm or 800 x 1000 mm. Additional formats, blanks, die-cut and formed parts are manufactured to customer requirements and on special request.

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**Storage Conditions:** Flexiso<sup>®</sup> 3010 FI 11010 can be stored unlimited under normal conditions (20 ° C, 50% RH) and in the original packaging. The material should be protected against humidity, dryness, direct sunlight and UV radiation as well as any heat effects.

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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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## Flexiso® 3010 FI 11010

Properties	Norm	Unit	Value				
Thickness	IEC 641	mm	0.70 ± 0.05	0.75 ± 0.05	0.80 ± 0.05	0.90 ± 0.05	1.00 ± 0.07
Basis Weight	IEC 641	g/m <sup>2</sup>	875 ± 10%	935 ± 10%	1000 ± 10%	1125 ± 10%	1250 ± 10%
Yield	IEC 641	m <sup>2</sup> /kg	1.1	1.1	1.0	0.9	0.8
Density	IEC 641	g/m <sup>2</sup>	1.20 - 1.30	1.20 - 1.30	1.20 - 1.30	1.20 - 1.30	1.20 - 1.30
Moisture Content	IEC 641	%	≤8	≤8	≤8	≤8	≤8
Ash Content	IEC 641	%	≤5	≤5	≤5	≤5	≤5
Tensile Strength:							
MD	IEC 641	N/mm <sup>2</sup>	≥60	≥60	≥60	≥60	≥60
CMD	IEC 641	N/mm <sup>2</sup>	≥30	≥30	≥30	≥30	≥30
Elongation							
MD	IEC 641	N/10mm	≥5.5	≥5.5	≥5.5	≥5.5	≥5.5
CMD	IEC 641	N/10mm	≥8.0	≥8.0	≥8.0	≥8.0	≥8.0
Shrinkage	IEC 641	%	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0
Conductivity of aqueous extract	IEC 641	µS/cm	≤200	≤200	≤200	≤200	≤200
Dielectric Strength	IEC 641	kV/mm	≥11,0	≥11,0	≥11,0	≥11,0	≥11,0

Properties	Norm	Unit	Value				
Thickness	IEC 641	mm	1.50 ± 0.10	2.00 ± 0.12	2.50 ± 0.15	3.00 ± 0.15	4.00 ± 0.20
Basis Weight	IEC 641	g/m <sup>2</sup>	1875 ± 10%	2500 ± 10%	3125 ± 10%	3750 ± 10%	5000 ± 10%
Yield	IEC 641	m <sup>2</sup> /kg	0.5	0.4	0.3	0.3	0.2
Density	IEC 641	g/m <sup>2</sup>	1.20 - 1.30	1.20 - 1.30	1.20 - 1.30	1.20 - 1.30	1.20 - 1.30
Moisture Content	IEC 641	%	≤ 8	≤ 8	≤ 8	≤ 8	≤ 8
Ash Content	IEC 641	%	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
Tensile Strength:							
MD	IEC 641	N/mm <sup>2</sup>	≥70	≥70	≥70	≥70	≥70
CMD	IEC 641	N/mm <sup>2</sup>	≥40	≥40	≥40	≥40	≥40
Elongation							
MD	IEC 641	N/10mm	≥5.5	≥5.5	≥5.5	≥5.5	≥5.5
CMD	IEC 641	N/10mm	≥8.0	≥8.0	≥8.0	≥8.0	≥8.0
Shrinkage	IEC 641	%	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0
Conductivity of aqueous extract	IEC 641	µS/cm	≤200	≤200	≤200	≤200	≤200
Dielectric Strength	IEC 641	kV/mm	≥10,0	≥9,0	≥9,0	k.A.	k.A.

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## Flexiso<sup>®</sup> 3010 FI 11010

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**Trademark Information:** Flexiso<sup>®</sup> is a registered trademark of the company Dr. Dietrich Müller GmbH Germany.

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**Information:** 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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