



DMD

DMD is a stable, triplex insulation material composed of one central layer of polyester film bonded between two outer layers of non-woven polyester fleece impregnated with a high temperature resistant varnish. An ideal material for slot and phase insulation of electric motors and generators but also suitable for interlayer insulation for transformers and other electrical applications.

- *Manufactured in thicknesses 90 – 460 µm*
- *Supplied in widths up to 1260 mm, slit widths, cut, punched and die-cut parts*
- *Very good electrical and mechanical properties*
- *Finds use in applications up to insulation class F (+155°C)*

PRODUCT INFORMATION

DMD is a stable, triplex insulation material. The structure provides a combination of good electrical, mechanical and thermal properties and very good adhesive properties by impregnation.

Typical applications

Electrical insulation primarily for slot, wedge and phase insulation of electric motors and generators, but also suitable for interlayer insulation of transformers and other electrical applications. Especially suitable for applications where objects are impregnated.

Properties

- Approved for insulation Class F (155°C)
- Very good electrical properties
- Very good mechanical properties
- Very good adhesion to and uptake of the impregnating varnish
- Very good durability
- Suitable for punching and cutting

Composition

- DMD is composed of one central layer of polyester film bonded between two outer layers of non-woven polyester fleece impregnated with a high temperature resistant varnish. The structure provides a combination of good electrical, mechanical and thermal properties and very good adhesion to and uptake of the impregnating varnish

Colour

- Usually white

Dimensions

- DMD is manufactured in thicknesses 90 - 460 µm
- Standard trimmed widths 455 mm, and 900-914 mm (depending on the item)
- Can be slit to desired widths up to max 1260 mm
- Can be punched or cut to desired form or shape. In the case of die-cutting a die tool is required (tools available at low costs)

Packaging

- Standard packaging width 455 mm in rolls of ca 6 kg* (certain thicknesses available for immediate delivery, see item list)
- Standard packaging width 900 - 914 mm depending on item in rolls of 10-20 kg* (depending on item, certain thicknesses held in stock) (see item list)
- Other slit-to-width dimensions on MOQ in kg on request
- Punched and die-cut items: volume MOQ by agreement (with die tool or cut)
- * Other weights on request

Product information for which Carbex bears no responsibility is provided by the manufacturer.





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Item Number/Grade	Name	Dimensions			Weight ca (kg)/roll	Weight g/m ² (nom.)	Length ca (m)/roll	Stock item (usually)
		Thickness (mm) / tol.	Width (mm)	Internal (mm)				
030500009	DMD	0.090 +/- 15%	900	76	14	100	155	
030500016	DMD	0.16 +/- 15%	450	76	6	150	89	X
030500021	DMD	0.21 +/- 15%	450	76	6	230	58	X
030500024	DMD	0.24 +/- 15%	450	76	6	270	49	X
030500031	DMD	0.31 +/- 15%	455	76	6	360	36	X
030500036	DMD	0.36 +/- 15%	455	76	6	435	30	X
030500046	DMD	0.46 +/- 15%	455	76	6	570	23	X
030509016	DMD	0.16 +/- 15%	910	76	20	150	146	X
030509021	DMD	0.21 +/- 15%	910	76	10	230	48	
030509024	DMD	0.24 +/- 15%	910	76	13	270	53	
030509031	DMD	0.31 +/- 15%	910	76	20	360	61	X
030509036	DMD	0.36 +/- 15%	925	76	20	435	50	X

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Technical data

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Properties	Standard	Value	Value	Value	Value	Value	Value	Value	Unit
Thickness	IEC-626-2	90	160	210	240	310	360	460	µm
Mechanical									
Thickness tolerance		15	15	15	15	15	15	3,5	+/- %
Thickness polyester film	IEC-626-2	23	50	100	125	190	250	350	µm
Thickness polyester fleece (ca)		30	50	50	50	50	50	50	µm
Name/thickness (Grade)			2/2/2	2/4/2	2/5/2	2/7/2	2/10/2	2/14/2	D/M/D
Weight/m ²	IEC-626-2	100	150	230	270	360	435	570	g/m ² (+/- 12%)
Tensile Strength MD/XD	IEC-626-2	55/35	90/70	100/90	100/90	110/100	110/100	100/90	N/mm ² (min)
Elongation MD/XD	IEC-626-2	20-dec	25/60	25/75	25/75	25/75	30/80	30/80	%
Thermal									
Electrical insulation class		F / 155	F / 155	F / 155	F / 155	F / 155	F / 155	F / 155	klass /°C
Electrical									
Dielectric strength	IEC-626-2	4	7	10	11	16	20	24	kV (min)

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