

TECHNICAL DATASHEET		Article	220xxxxRxxxxx
Code	SK011-AB-00-IT	Description	Laminate DMD I
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General features

Laminate DMD I soft is a flexible insulating material obtained by heat bonding two layers of polyester non-woven fabric (TNT) with a weight between 30 and 50 gr/m² with polyester film of different thickness, using special adhesives. The obtained material has been developed to be used as slot insulation in electric motors, thanks to a great conformability together with a low coefficient of friction, that allows its use with automatic slot inserting machines.

Laminates DMD I soft have both high thermal characteristics and very good wettability that allow their use, if suitably impregnated, in electrical machines with operating temperature up to 155°C.

Good malleability and dimensional stability, and very good dielectric properties, make DMD I soft a special product for the electric motors construction, as slot insulation or closure in electric motors and in other electric machines, such as transformers, coils, reactances etc.

Features

Feature	U.M.	Value						
Materials thickness range	mm	0,15	0,17	0,19	0,24	0,29	0,34	0,44
Polyester film thickness	μm	50	75	100	125	190	250	350
T.N.T.	μm	50	50	50	50	50	50	50
Metric yield	M ² /kg	7,143	5,714	4,762	4	2,941	2,381	1,786
Tensile strength	N/10mm	110	140	160	200	300	330	400
Dielectric strength	KV	6	7	9	10	15	18	22
Tensile elongation	% min	20	20	20	20	20	20	20

Notes and prescriptions

The main field of use of DMD I soft is motors construction, transformers, coils and electric machines in general with thermal classes of use "B (130°) or F (155°)" .

Production and processing: the material can be supplied in master roll of about 250Kg with height **1000mm** or in rolls cut to different heights with min. **8mm**.

DMD I soft can be used as rough material for the production of pieces to size, kiss-cu parts (phase insulators and others), hot or cold shaped.

N.B.: particular attention must be paid to storage, environmental conditions must not be over **25° C**, average life guaranteed **12 months**.

Pay particular attention during cutting or rewinding not to engrave, even partially, the surface and the edges of the material, this could affect the tensile strength.

Do not expose to oils or solvents.