

Flexible insulation laminates

PRODUCT DESCRIPTION

DyFlex® IDF is a three plies laminate composed of two layers of calendered polyester fleece coupled with a polyester film through a special polyurethanic adhesive. The coupling of polyester film with a non-woven gives both technical as well as economic advantages. The film guarantees outstanding electrical and mechanical properties whereas the non-woven fleece improves the thermal aging performance of the film. The non-woven layers are unsaturated and can be deeply impregnated with varnishes.

PROPERTIES AND CERTIFICATIONS

DyFlex® IDF is a flexible material in thermal class F 155°C (UL file number E209645*), combining excellent characteristics, such as high dielectric strength, high thermic resistance and superior mechanical properties as well as high impregnability with varnishes.

APPLICATIONS

DyFlex® IDF can be used as slot liner, slot closure or phase insulation in electric motors. It is also widely used as inter-winding insulation in transformers or in other electrical machines.

FORMATS

Master rolls width is 914mm untrimmed or till 1600mm upon request.
Other formats available upon request.

Properties	UM	Tolerance	Coveme material name***											Test method
			IDF 12	IDF 25	IDF 36	IDF 50	IDF 75	IDF 100	IDF 125	IDF 190	IDF 250	IDF 300	IDF 350	
Film thickness	µm	±10%	12	25	36	50	75	100	125	190	250	300	350	IEC 626
Total thickness	mm	±15%	0,12	0,13	0,14	0,16	0,18	0,20	0,23	0,30	0,35**	0,40**	0,45**	IEC 626
Weight	g/m²	±12%	89	105	125	145	180	210	250	340	420	490	560	IEC 626
Yield	m²/Kg	±12%	11,2	9,5	8,0	6,9	5,6	4,8	4,0	2,9	2,4	2,0	1,8	IEC 626
Tensile strength M.D.	N/cm	min	48	63	75	110	140	160	200	300	330	370	400	IEC 626
Elongation	%	min	20	20	20	20	20	20	20	20	20	20	20	IEC 626
Breakdown voltage	kV	min	3	4	5	6	7	9	10	15	18	20	22	IEC 626

*with a minimum PET film thickness of 3 mils or 75 microns

**Thickness tolerance is ±10%.

***eg. IDF12 reads Unsaturated, Double layer, Fleece, 12 microns Pet thickness

U.L. approved file No. E209645
The values given are average values and not specifications
DyTerm® is a Coveme trademark
Nomex® is a Du Pont trademark

Coveme spa is UNI EN ISO 9001-2008 certified



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