

Flexible insulation laminates

PRODUCT DESCRIPTION

DyFlex® ISF is a two plies laminate composed of a single layer of calendered polyester fleece coupled with a polyester film through a special adhesive. The non-woven layer is unsaturated and can be deeply impregnated with varnishes. 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, when impregnated with varnishes or resins, improves the thermal aging performance of the material.

PROPERTIES AND CERTIFICATIONS

DyFlex® ISF is a flexible material combining excellent characteristics, such as high dielectric strength, high thermic resistance and superior mechanical properties as well as high impregnability with varnishes. It can be used for insulation class F 155°C (UL file number E209645*) after impregnation with varnishes or resins.

APPLICATIONS

DyFlex® ISF can be used as slot liner, slot closure of 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	
			ISF 36	ISF 50	ISF 75	ISF 100	ISF 125	ISF 190	ISF 250		ISF 350
Film thickness	µm	±10%	36	50	75	100	125	190	250	350	IEC 626
Total thickness	mm	±15%	0,09	0,10	0,13	0,15	0,18	0,25	0,30**	0,40**	IEC 626
Weight	g/m ²	±12%	86	105	140	175	210	305	385	525	IEC 626
Yield	m ² /Kg	±12%	11,6	9,5	7,1	5,7	4,8	3,3	2,6	1,9	IEC 626
Tensile strength M.D.	N/cm	min	75	110	140	160	200	300	330	400	IEC 626
Elongation	%	min	20	20	20	20	20	20	20	20	IEC 626
Breakdown voltage	kV	min	4	5	6	8	9	13	16	19	IEC 626

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

**Thickness tolerance is ±10%.

*** eg. ISF36 reads Unsaturated, Single layer, Fleece, 36µ Pet thickness

All values stated are to be considered as Typical values.

The above information is liable to change due to innovation and improvement in the manufacturing process.

We assume no liability for any infringement of any patent, copyright or design on the part of the customer while exploiting the film for different end-uses.

DyFlex® is Repackage Recognized Component UL (E351391)
DyFlex® is UL approved file n° E209645
DyFlex® is a Coveme registered trademark
Coveme is UNI EN ISO 9001-2008 and ISO 14001 certified.



Date of revision: July 2012