

## Flexible insulation laminates

### PRODUCT DESCRIPTION

DyFlex® SF is a two plies laminate composed of a single layer 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 layer is saturated with a special impregnation resin (colored or white) that improves further the overall thermic performance of the laminate. DyFlex® SF is a two plies laminate composed of a single layer 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 layer is saturated with a special impregnation resin (colored or white) that improves further the overall thermic performance of the laminate.

### PROPERTIES AND CERTIFICATIONS

DyFlex® SF 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.

### APPLICATIONS

DyFlex® SF can be used as slot liner, slot closure in electric motors. It is also widely used as inter-winding insulation in transformers or in other electric 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
			SF 36	SF 50	SF 75	SF 100	SF 125	SF 190	SF 250	SF 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/m²	±12%	91	110	145	180	215	310	390	530	IEC 626
Yield	m²/Kg	±12%	11,0	9,1	6,9	5,6	4,7	3,2	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. SF36 reads Saturated, Fleece, 36µ 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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