

## Flexible insulation laminates

### PRODUCT DESCRIPTION

DyFlex® SDF is a three plies laminate composed of two 5 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 saturated with a special impregnation resin (colored or white) that improves further the overall thermic performance of the laminate.

### PROPERTIES AND CERTIFICATIONS

DyFlex® SDF 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® SDF 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
			SDF 36	SDF 50	SDF 75	SDF 100	SDF 125	SDF 190	SDF 250	SDF 350	
Film thickness	µm	±10%	36	50	75	100	125	190	250	350	IEC 626
Total thickness	mm	±15%	0,12	0,15	0,18	0,2	0,23	0,3	0,35**	0,45**	IEC 626
Weight	g/m²	±12%	135	155	200	230	270	360	435	570	IEC 626
Yield	m²/Kg	±12%	7,4	6,5	5,0	4,3	3,7	2,8	2,3	1,8	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	5	6	7	9	10	15	18	22	IEC 626

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

\*\*Thickness tolerance is ±10%.

\*\*\* eg. SDF36 reads Saturated, Double layer, 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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