

## DMD(6641) Flexible Composites

D<sup>TM</sup> F-DMD(6641) Flexible Composites are a family of 3- ply laminates of non-woven polyester fiber mat bonded to both sides of polyester film. it has good mechanical strength, dielectric property and reliable heat adhesion, cost-effectiveness. It is a perfect insulating material for class-F electrical machines in slot, phase, liner. The temperature index is 155°C.

### Characteristic:

- \* Reliable mechanical strength and dielectric property.
- \* Good flexibility and tear-resisting; good applicability in slot insulation.
- \* Recognized by national authority inspection institute, can be used for long time in class-F insulation.

### Specification:

Type		F-DMD-15	F-DMD-20	F-DMD-25	F-DMD-30	F-DMD-35
Typical thickness	mm	0.15	0.20	0.25	0.30	0.35
Thickness Tolerance	mm	±0.02	±0.03	±0.03	±0.03	±0.035

### Properties: (According to JB4060-1991)

Items	Test Conditions	Units	Typical Value				
			F-DMD-15	F-DMD-20	F-DMD-25	F-DMD-30	F-DMD-35
Visual			The surface should be even and free from wrinkle, blister and impurity				
Average weight		g/m <sup>2</sup>	150±22	210±32	260±39	310±46	390±58
Breakdown voltage		kV	≥ 6	≥ 9	≥ 12	≥ 12	≥ 13
	After Bending		≥ 6	≥ 9	≥ 12	≥ 12	≥ 13



Tensile strength	M.D.	N/cm	≥ 80	≥ 120	≥ 150	≥ 170	≥ 200
	MD after bending		≥ 70	≥ 105	≥ 130	≥ 150	≥ 180
	T.D.		≥ 80	≥ 105	≥ 130	≥ 150	≥ 180
	TD after bending		≥ 70	≥ 95	≥ 120	≥ 130	≥ 160
Elongation	M.D.	%	≥ 10			≥ 5	
	T.D.		≥ 15			≥ 5	
Stiffness	M.D.	N	≥ 20				
	T.D.		≥ 30				
Adhesion	A		No delamination				
	180±2℃/10min		No delamination, bubble, glue floating				

### Packing & storage:

Packed in carton after sealed by plastic film, keep in dry environment at room temperature, keep from fire and humidity, shelf life 12 months.

### Application :

F-DMD(6641) is suitable for slot, coils and liner insulation of Y2、Y3 motors series and their derivatives, electrical appliances.