

DMD(6631) Flexible Composites

B-DMD(6631) 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-20	F-DMD-25	F-DMD-30	F-DMD-35	F-DMD-40
Typical thickness	mm	0.20	0.25	0.30	0.35	0.40
Thickness Tolerance	mm	±0.03	±0.035	±0.04	±0.045	±0.05

Properties: (According to JB4060-1991)

Items	Test Conditions	Units	Typical Value				
			F-DMD-20	F-DMD-25	F-DMD-30	F-DMD-35	F-DMD-40
Visual			The surface should be even and free from wrinkle, blister and impurity				
Average weight		g/m ²	200±30	290±44	320±48	380±57	420±63
Breakdown voltage		kV	≥ 10	≥ 12	≥ 14	≥ 16	≥ 18



Tensile strength	M.D.	N/cm	≥ 120	≥ 170	≥ 190	≥ 210	≥ 260
	MD after bending		≥ 110	≥ 150	≥ 170	≥ 190	≥ 240
	T.D.		≥ 110	≥ 150	≥ 170	≥ 190	≥ 240
	TD after bending		≥ 100	≥ 140	≥ 160	≥ 180	≥ 220
Elongation	M.D.	%	≥ 10				
	T.D.		≥ 15				
Adhesion			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:

B-DMD(6631) is suitable for slot, coils and liner insulation of Y2、Y3 motors series and their derivatives, electrical appliances.