



November, 1979
 New Information

5M48, 5M51, 5M52, 5M53 and 5M62

Mailed to: E, D, C/2162/DB

Semi-Cured B-Stage Resin Treated Glass Cloth

5M48 Glass Cloth

5M48 is a thermosetting, B-staged, temperature stable, polyester resin treated glass cloth. It possesses a low tack pressure-sensitive surface. Supplied only with polyethylene separator sheet.

Application

Coil banding and wrapping.

Typical Properties

Treated, thickness (in.)	.005	.006	.010
Base cloth thickness (in.)	.003	.004	.007
Resin content % ①	55	50	45
Tensile strength (lbs/in. width)	80	100	250
Recommended cure	1 hour @ 150°C or 4 hours @ 135°C		
Shelf Life	6 months when stored below 70°F		

Typical Properties, Cured

Dielectric strength (VPM)②	400	400	400
Temperature rating	Continuous service @ 155°C with higher short term capabilities.		

5M62 Glass Cloth

5M62 uses the same B-stage polyester resin as 5M48, except the surface is slightly tacky, therefore it is supplied without a polyethylene separator sheet.

Application

Coil banding and wrapping.

Typical Properties

Treated thickness (in.)	.005	.006	.010
Base cloth thickness (in.)	.003	.004	.007
Resin content % ①	55	50	45
Tensile strength (lbs/in. width)	80	100	250
Recommended Cure	1 Hr. at 150°C or 4 Hrs. at 135°C		
Shelf Life	6 months when stored below 70°F		

Typical Properties, Cured

Dielectric Strength (VPM)②	400	400	400
Temperature Rating	Continuous service @ 155°C with higher short term capabilities		

5M51 Polyester-Glass Cloth

5M51 is a hydrolytically stable, resin treated, polyester-glass cloth. It has a low tack, pressure sensitive surface. Supplied only with a polyethylene separator sheet.

Application

Outer binder tape for stator and armature coils.

Typical Properties

Treated, thickness (in.)			.008
Base cloth thickness (in.)			.004
Weight, treated (lbs/yd ² .)			.46
Tensile Strength (lbs/in. width)			38
Recommended cure	4 hours @ 150°C		
Shelf Life	6 months when stored below 70°F		

Typical Properties, Cured

Temperature rating	Continuous service @ 155°C with higher short term capabilities.		
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5M52 and 5M53 Polyester Felts

These two products are polyester felts (different weight basis) saturated with a B-stage epoxy resin. Supplied only with polyethylene separator sheet.

Application

Stator winding bracing.

Typical Properties

Approximate thickness (in.)	5M52	5M53
Weight (lbs/yd ² .)	1.9	2.5
Resin Content (%)①	80	80
Recommended Cure	6 hours @ 150°C or	

Shelf Life

2 hours @ 175°C
 6 months when stored below 70°F

① Resin contents ± 5%.

② Dielectric strengths - review NEMA STANDARDS PUBLICATION NO. VF 10-1964 and ASTM-D-149.