Fibertek B-Stage Tapes

Res-I-Flex Sealable Armor Tape

Fibertek Res-I-Flex is a B-Staged, epoxy coated, woven polyester/glass tape which shrinks and fuses during the cure cycle to insure a tough, conformal moisture and chemical resistant dielectric seal for AC stators and DC armature coils. During the cure cycle, the resin flows and the polyester yarns in the wrap direction shrink providing a leak proof seal and eliminate the need for external pressure to be applied.

Part No.	Width	Thermal Class	Tensile lbs/inch	Colour	Dielectric VPM	Resin Content
FRF-075	¾″	155°C	40	Clear	2100	65%
FRF-100	1″	155°C	40	Clear	2100	65%

Note: Custom lengths and widths available on special order. Standard roll is 36 yards.

B-Stage Surge Rope

Fibertek B-Stage Surge Rope is preferred by industry leaders not only because of it's superior performance qualities, but is the choice of those who work with it everyday because of it's application flexibility, and equally important soft polyester finish that protects their hands from glass fibers and raw resins. Fibertek B-Stage Surge Rope provides greater protection for your work and workers.

Fibertek Surge Rope is constructed using a core of glass yarns which have been impregnated with a thermosetting modified polyester resin system rated at Class H Plus/220°C. The B-Stage core is overbraided with a spun polyester fiber encapsulating the core. It is designed for surge ring and other structural applications requiring a rigid insulating and high mechanical strength material.

Part No.	Diameter	Length	Resin Content	Resin Thermal Class
SRR 14	¼″	100 Ft.	35%	220°C
SRR 38	3/8″	100 Ft.	35%	220°C
SRR 716	7/16″	100 Ft.	35%	220°C
SRR 12	½″	50 Ft.	35%	220°C
SRR 58	5/8″	50 Ft.	35%	220°C
SRR 34	¾″	50 Ft.	35%	220°C
SRR 78	7/8″	50 Ft.	35%	220°C

Coilband Transformer Tensile Tapes

Fibertek Coilband tapes are widely used in large scale transformer manufacturing and rewind shops as a tensile member replacement for woven cotton tapes and webbings. Coilband tapes are nonwoven, fabricated from unidirectional parallel cotton yarns and impregnated and bonded with an appropriate binder. They combine high tensile, low elongation and high shear with excellent space reduction properties. Coilband tapes have a water soluble binder that is inert in both oil and pyranol.

Coilband tensile strengths are so much higher than woven tapes, that it is possible to "space" the tape during winding, whereas with woven tapes a butt wind or overlay is necessary. This results in substantial labor and material savings.

Part No.	Width	Thickness	Tensile lbs.	Put-Up	Standard Ctn. Qty.
CB38100B	3/8″	.007″	45	100 Yd. Bolt	360
CB381000S	3/8″	.007″	45	1000 Yd. Spool	24
CB12500S	½″	.007″	60	500 Yd. Spool	24
CB58500S	5/8″	.007″	75	500 Yd. Spool	24
CB34100B	¾″	.007″	90	100 Yd. Bolt	192
CB34500S	¾″	.007″	90	500 Yd. Spool	24
CB38500SO	3/8″	.010″	80	500 Yd. Spool	24
CB381000SO	3/8″	.010″	80	1000 Yd. Spool	12

Res-I-Straint Tadpole Edging Tape

Res-I-Straint Tadpole Edge is a resin Impregnated and B-Stage edging tape used in conjunction with glass banding tape to provide a more uniform glass band. It can also be used as a means of band stress relief when banding a wide area by using a third or intermediate restraint in the center of the glass band. Res-I-Straint is placed upon the armature prior to the banding tape application and the sewn-in bead forms the outer edges of the glass band. Hence, the diameter of the bead is proportionate to the thickness of the band.

Part No.	Bead Dia.	Tape Width	Core Length	Core I.D.	Yardage
FRS321	3/32″	1″	10″	3″	100 Yards
FRS521	5/32″	1″	10″	3″	100 Yards
FRS361.5	3/16″	1 ½″	10″	3″	100 Yards
FRS363	3/16″	3″	10″	3″	100 Yards
FRS142	¼″	2″	10″	3″	100 Yards

Note: Custom widths and bead diameters available on special order.

Res-I-Glas® Banding Tapes

RES-I-GLAS® by Fibertek is known throughout the rotating electrical equipment industry as the trade name of choice for glass banding tapes. The original RES-I-GLAS® is superior in tensile strength, durability, insulation value, ease of application, and storage shelf life, due to the uncompromised use of highest grade materials and consistent manufacturing process.

RES-I-GLAS® Banding Tape is constructed of high tensile electrical grade glass yarns laid parallel and bonded with fully catalyzed thermosetting resins. It is not a woven tape; thus it utilizes the full tensile strength of the glass. This results in a high tensile, high modulus, low elongation, high impact strength band. Because RES-I-GLAS® tape is itself an insulation, it requires no underlying insulation pad. It thus eliminates insulation and creepage problems experienced with steel wire banding.

RES-I-GLAS® tape is supplied semi-cured (B-Stage) in a soft well balanced flat ribbon form and this assures that each yarn bears an equal share of the load. The B-Stage resin isolates the individual glass yarns, thereby preventing cutting and shearing of these yarns.

Different Types of RES-I-GLAS®

RES-I-GLAS® is offered in four standards, Type R, G, F, and M. Type F RES-I-GLAS® is for use on motors and temperature ranges up to and including Class H Plus (220°C). Type F RES-I-GLAS® has a resin system with a nominal resin content of 27%. Type F represents a significant improvement in quality. Not only can Class H motors be glass banded, but motors of lower thermal ratings will obtain indefinite protection from aging or thermal degradation. Type F RES-I-GLAS® has excellent resin flow characteristics. Armatures can be banded with this tape either hot or cold because of the superior flow characteristics that it possesses. This resin flow also results in greater pre-stress retention, thereby minimizing coil movement.

Types R and G are for use on Class F motors (155°C). Except for the content of resin, types R and G are identical. Type G is for use when hot armature banding and contains a nominal 27% resin. Type R has a nominal 32% resin and is for use when banding cold armatures, though it can also be used on hot armatures – particularly when an extra good resin flow is desired on the tape surface. Top performance can be obtained with either R or G, but the application techniques appropriate to each RES-I-GLAS® tape used must be observed. Type R can be substituted for Type G without resulting in anything more serious than slightly higher costs. Type M is the moisture resistant high temperature RES-I-GLAS® containing nominal 27% resin. It is for use in applications up to 220°C where excessive moisture and temperature are critical factors.

RESI-GLAS® Sizes

Part No.	Width (inch.)	Thickness (inch.)
B-0122-F,G,R,M	.125	.015
B-0022-F,G,R,M	.187	.015
B-0222-F,G,R,M	.250	.015
B-0322-F,G,R,M	.375	.015
B-0422-F,G,R,M	.500	.015
B-0622-F,G,R,M	.750	.015
B-0822-F,G,R,M	1.000	.015
B-1222-F,G,R,M	1.500	.015
B-1622-F,G,R,M	2.000	.015
B-2422-F,G,R,M	3.000	.015