

GRAPHITE – LAMINATING EPOXIES

CM

CARBON GRAPHITE YARN TOW



High strength (470,000 PSI) carbon fibers are used as reinforcement in high performance structural composites for aircraft applications, recreational and industrial products.

Carbon fiber filaments are finer than a human hair. These filaments are bundled together to make a fiber of 3,000, 6,000 or 12,000 filaments which is called a "tow". The tow is sized with an epoxy compatible material to improve the handling characteristics. It is then wound on a cardboard core holding from 4 to 6 pounds of fiber. 1 Lb. spool.

| Actual Size | Part No. | Approx. Yield | Roll Size | Price/Spool |
|-------------|----------|---------------|-----------|-----------------|
| 3K Tow | 01-00343 | 2470 Yd./Lb. | 4 Lb. | \$394.00 |
| 6K Tow | 01-00307 | 1229 Yd./Lb. | 1 Lb. | \$79.65 |
| 12K Tow | 01-00004 | 621 Yd./Lb. | 2 Lb. | \$149.95 |
| 12K Tow | 01-00345 | 621 Yd./Lb. | 4 Lb. | \$298.95 |

It appears that the 6K tow will prove most practical for homebuilding applications. This size will be available in the small units shown. The 3K and 12K sizes are offered in full spools only. The 3K tow is used primarily by weavers. The 12K is difficult to wet out but can be done by diligent brushing.



S-GLASS ROVING FILAMENTS

This is the S-Glass Strand (roving) used by Rutan Aircraft Factory on the Defiant homebuilt kits. Also applicable to other homebuilt aircraft applications. Defiant requires four 15lb. rolls of S-Glass Strand.

One 15 Lb. Roll P/N 01-06400 **\$298.00**

UNIDIRECTIONAL ARAMID - TWARON ROVING

Material: 1500 denier Twaron (aramid), 5 ends (7500 denier total). Type: 1000. Yield: 567 yards/pound (0.588 lbs/1000ft). Elongation: 3.5%* (each end). Break: 79 lb. + 6.25%* (each end). Packaging. Tube length: 5.25". Inner diameter: 5/8". Yards/package: 300

300 Ft. Roll P/N 968 **\$37.70**

SYSTEM THREE QUIKFAIR EPOXY FAIRING PUTTY

Lightweight, micro ballooned filled, fast curing 2-part epoxy fairing putty with excellent moisture resistance. Use on both fiberglass and wood epoxy structures above or below the waterline. At 70° F it is sufficiently cured to be hand sanded in 3 hours or machine sanded in 4 hours. This allows you to apply 3 coats in a standard 8 hour shift or 6 in a round the clock basis. Complete a fairing or filleting job in a day rather than 3 or 4 days. NOTE: QuikFairs warm butter-like consistency makes it easy to measure by weight. Use care when measuring by volume as QuikFair does not self-level and may trap air pockets. As QuikFair is fast curing the working time is short. Mix no more than can be applied within 10 minutes.

24 oz. Kit P/N 01-00404 **\$29.50**
1-1/2 qt. Kit P/N 01-00405 **\$44.65**



EPOXY PREMIUM PIGMENTS

These Premium Pigments are a paste to tint polyester, vinyl ester, epoxy resin, and polyurethane. Add about 6% to 8% of pigment by weight or 1/2 pint of pigment per gal. of resin.

White - 1 oz. P/N 01-45308 **\$5.95**
White - 8 oz. P/N 01-45501 **\$19.95**
Black - 1 oz. P/N 01-45319 **\$6.50**
Black - 8 oz. P/N 01-45512 **\$20.50**



IMPACT RESISTANT LAMINATING EPOXY



DLRH-3212 is an unfilled, clean epoxy resin system with a long pot life. DLRH-3212 is a tough, strong, impact resistant resin with chemical resistance. It has excellent wetting quality on kevlar, carbon graphite and fiberglass cloth. Used extensively in construction of aircraft, race cars, motorcycles, helmets and sports equipment.

Mixing Ratio by Wt: 100:30; Pot Life (200 Gm MASS) 60 Min; Tensile Strength @ 25 C 12,500; Flexural Modulus @ 25 C 40,900; Heat Deflection 325 F; Thermal Shock 72°F-125°F; Shore "D": 80, Density: Resin: 9.7, Hardener: 7.9, Mixed: 9.1; Shelf Life: Resin/ Hardener 1 Year.

Qt Kit P/N 01-00430 **\$61.85**
Gal Kit P/N 01-00431 **\$169.00**
5 Gal Kit P/N 01-00432 **\$835.00**

JEFFCO EPOXY LAMINATING SYSTEM



1307 Low Viscosity Resin / 3102 Fast Hardener - 100% solids 2-component epoxy laminating system with excellent wet out, low viscosity and high strength. Very low odor and toxicity. Easy to use, 4:1 weight or volumetric mixing, safe, fast curing products for a variety of use applications. Used for fast curing, penetrating wood coatings, adhesives and sealers, fiberglass laminating and microsphere filled fairing compounds. Excellent cold temperature cures down to 40°F. No solvents or VOC's. Non-hazardous, non-corrosive hardener.

3176 30-minute Medium R/T Epoxy Hardener - Fast setting, even in thin films. Good low temperature cure. Fast wetting of fiberglass reinforcements. Easy to use 4:1 mix ratio. High HDT at room temp, increasing with post cure. Low toxicity, very low odor. Non-hazmat.

Low Viscosity Laminating Resin

1307 LV, Pail (40 lbs) P/N 01-07917 **\$310.00**
1307 LV, Gallon (8 lbs) P/N 01-07914 **\$62.00**

Fast Hardener

3102, Pail (40 lbs) P/N 01-07920 **\$390.00**
3102, Gallon (8 lbs) P/N 01-07918 **\$81.50**
3102, Quart (2 lbs) P/N 01-07915 **\$22.00**

Medium Hardener

3176, Pail (40 lbs) P/N 01-07921 **\$365.00**
3176, Gallon (8 lbs) P/N 01-07922 **\$78.85**
3176, Quart (2 lbs) P/N 01-07923 **\$23.95**

KITS -

Jeffco Epoxy, 1 gal. kit, fast P/N 01-07916 **\$84.00**
Jeffco Epoxy, 5 gal. kit, fast P/N 01-07919 **\$412.95**
Jeffco Epoxy, 1 gal. kit, medium P/N 01-07924 **\$85.50**
Jeffco Epoxy, 5 gal. kit, medium P/N 01-07925 **\$419.00**

AEROPOXY LIGHT PATCHING/FILLER COMPOUND



Aeropoxy Light, a modification of the ES6279 adhesive system, is a 2-component paste epoxy patching and filler compound for foam, wood, fiberglass and other surfaces. The mixed consistency of this system is very smooth and creamy, so it spreads easily, and can be spliced to a feather edge without separation. It is a thixotropic, non-sag material that will remain in place in thick sections, even when applied upside down! The resin and hardener of this system are color coded for easy mixing.

The resin is white and the hardener is brown, giving a good visual indication of complete mixing with a uniform tan color free of streaks. AEROPOXY LIGHT has special low density fillers incorporated into it that provide very distinct benefits. It is a very light material (4 pounds per gallon), and therefore contributes minimal added weight to the filled or repaired structure. Also, the cured material is very easy to sand, making the finished patch undetectable when covered or painted. There are no volatile ingredients in AEROPOXY LIGHT, so the cured material will not outgas, which could cause a loss of adhesion of paint or coverings. Sold in kits of part A & B.

1-1/2 lb. Kit P/N 02-30006 **\$36.80**
6 lb. Kit P/N 02-30007 **\$116.95**

FIRE RETARDANT LAMINATING EPOXY KITS



The epoxy systems in this group are highly engineered products designed to meet or exceed the requirements of the various flame retardant specifications for which they were developed. They are filled laminating compounds that have good handling characteristics and provide very high physical properties in addition to their excellent fire retardant capabilities. They are well suited to a wide variety of production and tooling applications where the combination of very good physical properties and outstanding flame retardant abilities will provide durable parts and tools.

PT2475 is a filled, off-white epoxy laminating system designed for use in constructing fire retardant laminates for parts or reinforcements. PT2475 meets the requirements of the FAR 25.853 Specification. This system has a 1 hour pot life at normal ambient temperatures, which will allow the construction of larger laminated than would be possible with a faster material. The system cures well at room temperature, and the cure can be accelerated with the addition of mild heat if desired.

Quart P/N 01-01516 **\$45.60**
Gallon P/N 01-01517 **\$156.75**
5 Gallon P/N 01-01518 **\$587.00**