



Kevlar® / Carbon Hybrid (yellow, blue, red)

Part # - 1065, 1066, 1067

5.4 oz/sq yd, 50" Wide, .012" Thick, 2x2 Twill Weave

These first quality, hybrid fabrics offer 3K Carbon in the warp and 1500 Denier Kevlar® in the fill directions for maximum drapability and drop-dead good looks. Use as a single layer for cosmetics only or back with another layer in the cross direction for a maximum balance of properties. The Kevlar® fibers are dyed with red, blue or yellow dyes for eye-catching color.

| Product Properties | |
|----------------------|---|
| Warp Raw Material | 3K –Multifilament Continuous Tow |
| Filling Raw Material | 1420-1500 Denier Kevlar 49 |
| Weave Pattern | 2 x 2 Twill |
| Fabric Areal Weight | 5.4 oz/ yd ² (193 gsm approx.) |
| Warp Ends/ Inch | 12.5 ± 1.0 |
| Pick / Inch | 14.0 ± 1.0 |
| Nominal Thickness | .012 inches |
| Fabric Width | 50 ± .25/-0 inches |

Resin Compatibility:

Kevlar®/ Carbon Fiber Hybrid Fabrics are compatible with Polyester, Vinyl Ester, and Epoxy Resins.

General Properties for Kevlar® / Carbon Fabrics:

- Lightweight
- High Strength
- Fire Resistant
- Dimensionally Stable
- Fatigue Resistant
- Highly Drapable

| Warp Carbon | |
|------------------|---------------|
| Tensile Strength | 510-635 KSI |
| Tensile Modulus | 33.6-34.9 MSI |
| Elongation | 1.60-1.95% |

| Fill Kevlar | |
|---------------------|--------------|
| Tenacity | 24-27 gpd |
| Modulus | 935-1045 gpd |
| Elongation at Break | 2.05-2.85% |
| Break Strength | 69-83 lb |