

WOVEN FABRIC

 Product Description: **GK-165 P**

Hybrid Fabric

| CHARACTERISTICS | NOMINAL | UM | TOLERANCE | NORMATIVE |
|--------------------|-----------|------------------|-----------|---------------|
| Mass unit per area | 165 | g/m ² | 5,0% | ISO 3374 |
| Weave | Plain | | | ISO 2113 |
| Width | 1000/1200 | mm | 2,5% | ISO 22198 |
| Thickness | 0,16 | mm | 5,0% | ISO 5084 (**) |
| Other informations | Loomstate | | | |

| NOMINAL CONSTRUCTION | WARP | | WEFT | |
|---------------------------------|---|----------|---|--------------------|
| 1st fiber description | HS Carbon Fiber - HexTow AS4C - 3K | | HS Carbon Fiber - HexTow AS4C - 3K | |
| 1st fiber producer | HEXCEL | | HEXCEL | |
| 2nd fiber description | Aramid Fiber - AF3000 1420D - 1600 dtex | | Aramid Fiber - AF3000 1420D - 1600 dtex | |
| 2nd fiber producer | Hyosung | | Hyosung | |
| Thread count - 1st fiber | 3,06 ends/cm ±2% | ISO 4602 | 1,53 ends/cm ±2% | ISO 4602 |
| Thread count - 2nd fiber | 1,53 ends/cm ±2% | ISO 4602 | 3,06 ends/cm ±2% | ISO 4602 |
| Weight distribution - 1st fiber | 61 g/m ² | 37,0% | 31 g/m ² | 18,8% |
| Weight distribution - 2st fiber | 24 g/m ² | 14,5% | 49 g/m ² | 29,7% |
| Weight distribution | 51,5% | | 48,5% | |
| Selvadges | Weaving style | LENO | Type of fiber | HM polyster 22 tex |

| MECHANICAL PROPERTIES OF FIBER | STRENGHT (nominal) | MODULUS (nominal) |
|--------------------------------|--------------------|-------------------|
| HexTow AS4C - 3K | 4550 MPa | 231 GPa |
| AF3000 1420D - 1600 dtex | 3050 MPa | 114 GPa |
| | | |

(**) Theoretical thickness for an epoxy laminate with 40% of reinforcement in volume.

Note: Technical information furnished is based on laboratory findings and believed to be correct. No warranties of any kind are made except that the materials supplied are of standard quality. All risk and liabilities arising from handling, storage and use of products, as well as compliance with applicable legal restrictions, rests with the user.

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