# GLASS FILAMENT FABRICS for PLASTICS REINFORCEMENT

## PRODUCT SPECIFICATION

| | | | | Specification |
|---|---|---|---|---|
| **Style Number** | **01610** | **Old ITG desc.** | 90070 | MIL-Y-1140H |
| **US Style** | 1610 | | | AMS / MIL-C-9084 |
| **WLB No.** | 8.4505.60 | | | DIN 65066 |
| **British Standard** | | | | BS 3396 |

| | |
|---|---|
| **Finish/Designatio** | FK144 |

| | Unit | | Tolerance | Specification |
|---|---|---|---|---|
| **Weave pattern** | | Plain | | DIN ISO 9354 |
| Area weight | g / m² | 80,0 | ± 5% | DIN EN 12127 |
| **Yarn** | tex | | | DIN EN 12654 |
| warp yarn | | EC9-34 tex | | |
| weft yarn | | EC9-34 tex | | |
| **Fibre count** | 1 / cm | | | DIN EN 1049 |
| warp ends | | 12,0 | ± 5% | |
| weft picks | | 11,5 | ± 5% | |

| | | | |
|---|---|---|---|
| **Temperature resistance 1)** | | | |
| Continuous load | ℃ | 260 | |
| Short time resistance | ℃ | 600 | |

| | | | |
|---|---|---|---|
| **Moisture content** | % | < 0,2 | DIN EN 3616 |
| **Finish content** | % | 0,08 - 0,28 | DIN ISO 1887 |
| | | | DIN EN 60 |

| | | | | |
|---|---|---|---|---|
| **Thickness (approx. dry)** | mm | 0,10 | ± 5% | DIN ISO 4603/E |
| in laminate (43% Vol.) | mm | 0,07 | ± 5% | |

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| | Unit | Standard | P-D ITG | Tolerance | Specification |
|---|---|---|---|---|---|
| **Style Number** | | **01610** | | **/ FK144** | |
| **Tensile Strength** | | | | | ASTM D 4029 |
| warp | N/cm | | | > | |
| weft | N/cm | | | > | |
| | | | | | |
| **Tensile strength** | | | | | DIN EN 2747 |
| warp | MPa | 335 | 520 | > | |
| weft | MPa | 320 | | > | |
| **Young's-Modulus** | | | | | |
| warp | GPa | 19 | | > | |
| weft | GPa | 18 | | > | |
| **Compression strength** | | | | | DIN 53454 |
| warp | MPa | 375 | | > | DIN 65380 |
| weft | MPa | 360 | | > | DIN prEN 2580 |
| **Compression-Modulus** | | | | | |
| warp | GPa | | | > | |
| weft | GPa | | | > | |
| **Interlaminar shear strength** | | | | | DIN EN 2377 |
| warp | MPa | 50 | | > | |
| weft | MPa | 45 | | > | |
| **Flexural strength** | | | | | DIN EN 2746 |
| warp | MPa | 495 | | > | |
| weft | MPa | 460 | | > | |
| **Flexural-Modulus** | | | | | |
| warp | GPa | 24 | | > | |
| weft | GPa | 24 | | > | |

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**Remarks**

1) Temperature resistance for dry fabrics

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