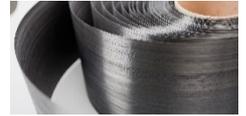


Provisional Technical Information

VESTAPE PA12-CF45 10141

High chemical resistance, low water absorption, damage resistant



| Tape Properties | Unit | Value | Standard |
|--------------------------------------|-------------------|-----------------|-----------|
| Polymer | - | polyamide 12 | - |
| Fiber | - | HT carbon fiber | - |
| Fiber volume fraction | % by vol. | 45 | EN 2559 |
| Fiber weight fraction | % by weight | 59 | EN 2559 |
| Tape areal weight | g/cm ² | 343 | |
| Tape density | g/cm ³ | 1.36 | ISO 1183 |
| Tape thickness | mm | 0.25 | - |
| Tape width | mm | 150 | - |
| Laminate properties @23°C* | | | |
| Tensile modulus (0°) | GPa | 100 | ISO 127 |
| Tensile strength (0°) | MPa | 1850 | ISO 527 |
| In plane shear modulus G12 | GPa | 1.4 | ISO 14129 |
| In plane shear strength τ_{12M} | MPa | 30 | ISO 14129 |
| Processing properties | | | |
| Melt temperature | °C | app. 176 | ISO 11357 |
| Glass transition temperature | °C | app. 45 | ISO 11357 |
| Typical processing temperature | °C | 210-240 | |

*measured on 8 layer plies. Note: Laminate values might differ.

Laminate processing via Hot Transfer Pressing optimized for shortest cycle time.

The results shown have been generated from a low number of production lots. Therefore, they are preliminary and not yet the result of a statistical evaluation. Therefore they must not be used to establish specifications.

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