

Product Texts

HT carbon fiber reinforced UD-tape made from polyamide 12

VESTAPE® PA12-CF45 is an unidirectional carbon fiber reinforced tape made from PA12 with a fiber volume content of 45 %, that shows a high chemical resistance, low water absorption and steady mechanical properties over a wide temperature range.

VESTAPE® PA12-CF45 is supplied as a band-shaped semi-finished product showing a width of 160 mm and a thickness of 0,25 mm. Further information about the properties and the processing of VESTAPE® can be found in our brochure „[VESTAPE](#)“.

The values presented are typical or average values, they do not constitute a specification.

FOR FURTHER INFORMATION PLEASE CONTACT US AT EVONIK-HP@EVONIK.COM OR VISIT OUR PRODUCTS AT COMPOSITES.EVONIK.COM.

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	40	°C	ISO 11357-1/-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Humidity absorption	0.47	%	Sim. to ISO 62
^[C] Density	1360	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Molding temperature, of test plate	220	°C	-
^[C] Molding time, of test plate	5	min	-
^[C] Cooling rate, of test plate	20	K/min	-
^[C] Molding pressure, of test plate	1	MPa	-

[C]: CAMPUS

Characteristics

Processing

Thermoforming

Delivery form

Tape

Special Characteristics

Increased electrical conductivity, Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa