

Technische Daten
Carbon-Rohr PrePreg

Faserorientierung <i>fiber alignment</i>	Bidirektional 0°/90°
Gewebeart <i>fabric</i>	Köper 2/2
Faservolumenanteil <i>fiber volume</i>	ca./aprox. 60 %
Oberflächen <i>surface</i>	Beidseitig glatt, sichtbare Struktur, matt glänzend <i>both sides smooth visibel structure, shiny</i>
Temperaturbeständigkeit <i>temperature resistance</i>	bis 110°C <i>up to 110 °C</i>
Biegefestigkeit <i>flexural strength</i>	0°=1050 MPa 90°=900 MPa
Biege-E-Modul <i>flexural-E-Modul</i>	0°=62 GPa 90°=60 GPa
ILS	0°=68 MPa 90°=0 MPa
Zug-E-Modul <i>tesile-E-Modul</i>	0°=60 GPa 90°=60 GPa
Zugfestigkeit <i>tensile strength</i>	0°=950 MPa 90°= 900 MPa
Bruchdehnung <i>fracture strain</i>	1,6-1,7%
Dichte <i>density</i>	1,5-1,6g/cm ³
Wärmeausdehnung <i>thermal expansion coefficient</i>	-0,1 * 10 ⁻⁶ *K ⁻¹ zur Faser längs <i>along the fiber</i>
röntgentransparent <i>radiolucent</i>	21 * 10 ⁻⁶ *K ⁻¹ zur Faser quer <i>crosswise the fiber</i>
elektrischer Widerstand <i>specific elctrical resistance</i>	99 %
Wärmeleitzahl <i>heat conductivity</i>	1,6*10 ⁻³ Ohm*cm
spezifische Wärmekapazität <i>specific heat capacity</i>	17 [W/(m*K)]
Schwingungsfest <i>no vibrations</i>	710 [J/kg*K)]
UV-Stabilität <i>UV-resistant</i>	handelsüblichen Klarlack aufbringen <i>by using standard varnish</i>
Korrosionsbeständigkeit <i>corrosion-resistant</i>	z.B. Benzin, Öl, Salzwasser, Flusssäure <i>e.g. petrol, oil, saltwater, hydrofluoric acid</i>
Bearbeitung <i>handling</i>	bohren, fräsen, sägen, kleben <i>drill, mill, cutt, glue</i>

Gewichtsübersicht *weights:*

Durchmesser/ <i>diameter</i>	Gramm/Meter <i>Gramms/Meter</i>								
5,0x4,0	12	12,0x10,0	46	18,0x16,0	77	24,0x23,0	53	30,0x27,0	225
6,0x5,0	13	12,0x11,0	26	18,0x17,0	40	25,0x23,0	90	30,0x28,0	155
7,0x5,0	27	13,0x11,0	52	19,0x17,0	75	25,0x24,0	56	32,0x30,0	180
8,0x6,0	30	13,0x12,0	28	19,0x18,0	42	26,0x24,0	134	35,0x32,0	245
8,0x7,0	17	14,0x12,0	56	20,0x18,0	87	26,0x25,0	62	40,0x36,0	370
9,0x7,0	35	14,0x13,0	31	20,0x19,0	44	27,0x24,0	220	45,0x41,0	415
9,0x8,0	19	15,0x13,0	58	21,0x20,0	47	27,0x25,0	150	50,0x46,0	465
10,0x8,0	40	15,0x14,0	33	22,0x21,0	49	28,0x24,0	276	55,0x51,0	510
10,0x9,0	22	16,0x14,0	66	23,0x22,0	51	28,0x26,0	144	60,0x56,0	560
11,0x9,0	45	16,0x15,0	35	24,0x21,0	162	29,0x27,0	174		
11,0x10,0	24	17,0x16,0	37	24,0x22,0	123	30,0x26,0	295		

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