

Brand name	Tenax™
Production site	Europe
Product designation	Tenax™-E TPWF PEEK-4-42-HTA40 E13 3K DT-5HS-285
Product key	6200
Carbon Fiber	Tenax™-E HTA40 E13 3K 200tex Density: 1.77 g/cm ³
Matrix	PEEK (Polyetheretherketone) Density: 1.30 g/cm ³



Semi-finished Product

Fabric Style	5HS
Total Areal Weight	485 g/m ²
Fiber Areal Weight	285 g/m ²
Matrix Content	42 wt%
Nominal Thickness	0.31 mm
Nominal Width	1250 mm

Thermoforming Recommendations

Consolidation Temp.	734 ± 54 °F 390 ± 30 °C
Consolidation Pressure	218 ± 145 psi 25 ± 10 bar
Consolidation Time	20 ± 10 min

Properties (Test Direction)

		Test Temperature/ Conditioning	Typical Values	
Glass Transition Temperature ISO 11357		23 °C / 50 % r.h.	143 °C	289 °F
Tensile (0°) EN ISO 527-4	strength	23 °C / 50 % r.h.	963 MPa	139.7 ksi
	modulus	23 °C / 50 % r.h.	60 GPa	8.7 Msi
Compression (0°) EN 2850 B1/B2	strength	23 °C / 50 % r.h.	725 MPa	105.2 ksi
	modulus	23 °C / 50 % r.h.	59 GPa	8.6 Msi
Flexure (0°) EN 2562 A	strength	23 °C / 50 % r.h.	1166 MPa	169.1 ksi
	modulus	23 °C / 50 % r.h.	64 GPa	9.3 Msi

- All data shown are typical values representative of the material and cannot be guaranteed. Properties may vary depending on samples preparation and test methods.
- For each shipment an inspection certificate 3.1 according to DIN EN 10204 is generated and supplied.
- A detailed customer specification is arranged on request.
- The export or transfer of carbon fiber products can be subject to authorization, depending on end-use and final destination