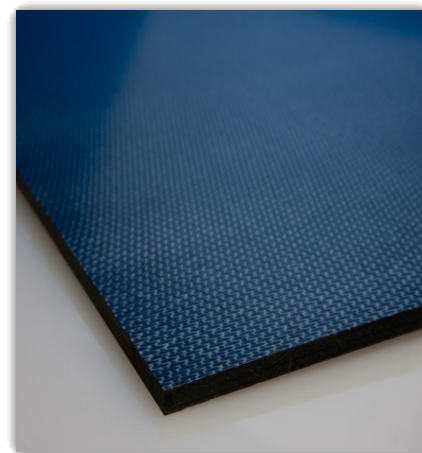


**Brand name** Tenax™  
**Production site** Europe  
**Product designation** Tenax™-E TPCL PEEK-4-40-HTA40 E13 3K DT-5HS-285  
**Carbonfiber** Tenax™-E HTA40 E13 3K 200tex  
 Density: 1.77 g/cm<sup>3</sup>  
**Matrix** PEEK (Polyetheretherketone)  
 Density: 1.30 g/cm<sup>3</sup>



**Semi-finished Product**

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

**Thermoforming Recommendations**

Consolidation Temp.	734 ± 54 °F 390 ± 30 °C
Consolidation Pressure	363 ± 218 psi 25 ± 15 bar
Consolidation Time	≤ 5 min
Cooling-down Rate	≤ 248 °F/min ≤ 120 °C/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°) 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 Ty 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 si

- 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
- Biocompatible (comply with ISO 10993-5)