

Brand name Tenax™
Production site Europe
Product designation TPUD HT 01 0145 610011
Product key 610011
Carbonfiber Tenax™-E HTS45 P12 12K 800tex
 Density: 1.77 g/cm³
Matrix PEEK (Polyetheretherketone)
 Density: 1.30 g/cm³



Semi-finished Product

Total Areal Weight	220 g/m ²
Fiber Areal Weight	145 g/m ²
Matrix Content	34 wt%
Nominal Consolidated Ply Thickness	.0055" 0.14 mm
Width	12" and 24" (304.8 mm and 609.6 mm) Slitting on request

Press Cycle Recommendations

Consolidation Temp.	390 °C 734 °F
Consolidation Pressure	20 bar 290 psi
Consolidation Time	20 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 2561 B	strength	23 °C / 50 % r.h.	2300 MPa	333 ksi
	modulus	23 °C / 50 % r.h.	138 GPa	20 Msi
Compression (0°) EN 2850 B1/B2	strength	23 °C / 50 % r.h.	1280 MPa	185 ksi
	modulus	23 °C / 50 % r.h.	120 GPa	17.5 Msi
Flexure (0°) EN 2562 A	strength	23 °C / 50 % r.h.	1840 MPa	267 ksi
	modulus	23 °C / 50 % r.h.	120 GPa	17.5 si
Flexure (90°) EN 2562 A	strength	23 °C / 50 % r.h.	162 MPa	12.5 ksi
	modulus	23 °C / 50 % r.h.	9.2 GPa	1.3 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
- Biocompatible (comply with ISO 10993-5).