

CF-PAHT Pellet Technical Data Sheet(TDS)

PHYSICAL PROPERTIES		
Property	Testing Method	Typical Value
Density	ISO 1183	1.28 g/cm ³
Water Absorption	ISO 62, ISO 3167 A	<0.2 %; 23°C/24h
Mould Shrinkage (parallel)	ISO 294, 60x60x2 mm	0.05 %
Mould Shrinkage (transverse)	ISO 294, ⊥ 60x60x2 mm	0.2 %

THERMAL PROPERTIES		
Property	Testing Method	Typical Value
Heat Deflection Temperature	ISO 75, 80x10x4 mm	230 °C; HDT A
Service Temperature	ISO 3167 A	180 °C; during lifetime max. 200 h

MECHANICAL PROPERTIES At 23°C / 50% RH		
Property	Testing Method	Typical Value
Tensile Strength	ISO 527, ISO 3167 A	260 MPa; dry, @50 mm/min
Elongation	ISO 527, ISO 3167 A	1.5 %; dry, @50 mm/min
Modulus of Elasticity	ISO 527, ISO 3167 A	20 GPa; dry, @1 mm/min
Flexural Strength	ISO 178, ISO 3167 A	350 MPa; dry, @10 mm/min
Flexural Elongation @Fmax.	ISO 178, ISO 3167 A	2.2 %; dry, @10 mm/min
Flexural Modulus	ISO 178, ISO 3167 A	18 GPa; dry, @2 mm/min
Charpy Impact Strength	ISO 179 1eU, 80x10x4 mm	40 kJ/m ² ; dry
Charpy Impact Strength Notched	ISO 179 1eA, 80x10x4 mm	4.5 kJ/m ² ; dry

ELECTRICAL PROPERTIES		
Property	Testing Method	Typical Value
Insulation Resistance	DIN EN 62631, ISO 3167 A	<10 ³ Ω; Strip Electrode R ₂₅
Surface Resistance	DIN EN 62631, Ronde 60x4 mm	<10 ³ Ω; R _{OB}