

CF-PPS Pellet Technical Data Sheet(TDS)

PHYSICAL PROPERTIES		
Property	Testing Method	Typical Value
Density	ISO 1183-3	1.3 g/cm ³
Water Absorption	ISO 62, ISO 3167 A	<0.1 %; 23°C/24h
Mould Shrinkage (parallel)	ISO 294, 60x60x2 mm	0.15 %
Mould Shrinkage (transverse)	ISO 294, ⊥ 60x60x2 mm	0.5 %
Combustion Characteristic	UL 94, 1/16"	(V-0)

THERMAL PROPERTIES		
Property	Testing Method	Typical Value
Heat Deflection Temperature	ISO 75, 80x10x4 mm	245 °C; HDT A
Service Temperature	IEC 60216, ISO 3167 A	220 °C; 20 h

MECHANICAL PROPERTIES At 23°C / 50% RH		
Property	Testing Method	Typical Value
Tensile Strength	ISO 527, ISO 3167 A	110 MPa; dry, @50 mm/min
Elongation	ISO 527, ISO 3167 A	1.3 %; dry, @50 mm/min
Modulus of Elasticity	ISO 527, ISO 3167 A	10 GPa; dry, @1 mm/min
Flexural Strength	ISO 178, ISO 3167 A	180 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	9 GPa; dry, @2 mm/min
Charpy Impact Strength	ISO 179 1eU, 80x10x4 mm	30 kJ/m ² ; dry
Charpy Impact Strength Notched	ISO 179 1eA, 80x10x4 mm	5 kJ/m ² ; dry

ELECTRICAL PROPERTIES		
Property	Testing Method	Typical Value
Surface Resistance	DIN EN 62631-3-2, Ronde 60x4 mm	<10 ⁵ Ω; R _{OB}