

CF-PA6 Pellet Technical Data Sheet(TDS)

PHYSICAL PROPERTIES		
Property	Testing Method	Typical Value
Density	ISO 1183-3	1.13 g/cm ³
Water Absorption	ISO 62, ISO 3167 A	<0.5 %; 23°C/24h
Mould Shrinkage (parallel)	ISO 294, 60x60x2 mm	0.6 %
Mould Shrinkage (transverse)	ISO 294, ⊥ 60x60x2 mm	1.2 %

THERMAL PROPERTIES		
Property	Testing Method	Typical Value
Heat Deflection Temperature	ISO 75, 80x10x4 mm	80 °C; HDT A
Service Temperature	IEC 60216, ISO 3167 A	120 °C; 20 h

MECHANICAL PROPERTIES At 23°C / 50% RH		
Property	Testing Method	Typical Value
Tensile Strength	ISO 527, ISO 3167 A	90 MPa; dry, @50 mm/min
Elongation @Fmax	ISO 527, ISO 3167 A	5 %; dry, @50 mm/min
Tensile Modulus	ISO 527, ISO 3167 A	5.5 GPa; dry, @1 mm/min
Flexural Strength	ISO 178, ISO 3167 A	135 MPa; dry, @10 mm/min
Flexural Elongation @Fmax.	ISO 178, ISO 3167 A	5 %; dry, @10 mm/min
Flexural Modulus	ISO 178, ISO 3167 A	4.5 GPa; dry, @2 mm/min
Charpy Impact Strength	ISO 179 1eU, 80x10x4 mm	75 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 ¹² Ω; R _{OB}