



KRATIR PP CF AO (P)

Material class: Polypropylene / Carbon Fiber

Modified for FGF Printing

- High modulus & strength
- Excellent chemical resistance
- (AO) Adhesion modified
- ESD safe

Property	Method	Units	Value XZ** (on edge)	Value ZX** (upright)
Mechanical properties				
Tensile Modulus	ISO 527 Type 1BA	MPa	11000	1470
Tensile Strength at yield	ISO 527 Type 1BA	MPa	No yield	No yield
Tensile Strength at break	ISO 527 Type 1BA	MPa	81.8	17.4
Elongation at yield	ISO 527 Type 1BA	%	No yield	No yield
Elongation at break	ISO 527 Type 1BA	%	2.9	3.2
Flexural Modulus	ISO 178	Mpa	10300	1040
Flexural Stress at break	ISO 178	Mpa	111	23.5
Flexural Strain at break	ISO 178	%	2.5	4.6
Impact Strength	ISO 180	J/m		
Impact Strength	ISO 180	kJ/m2		



Property	Method	Units	Value
Thermal properties			
Glass transition temperature (T _g)	ISO 11357-1	°C	-20
Melting temperature	ISO 11357-3	°C	165
Vicat softening temperature	ISO 306/B50	°C	
Temp. of deflection under load (1.80 Mpa)*	ISO 75-1/-2	°C	150
Temp of deflection under load (0.45 Mpa)*	ISO 75-1/-2	°C	
Physical properties			
Pellet			
Density	ISO 1183-1	g/cm ³	1.07
Humidity absorption (70 °C, 62% r.H.)*	ISO1110	%	0.05
Water absorption (23 °C saturated)*	Sim. to ISO 62	%	0.15-0.20

* Injection moulding data



Recommended processing conditions

Intake	Recommended 40 °C - 80 °C
Zone 3	Recommended 220 °C - 240 °C
Zone 2	Recommended 230 °C - 250 °C
Zone 1	Recommended 230 °C - 260 °C
Nozzle	Recommended 260 °C - 270 °C
Drying instructions	80 °C for 1-3 hours

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