



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/m ²		



Property	Method	Units	Value
Thermal properties			
Glass transition temperature (Tg)	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/cm3	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

All information supplied by or on behalf of Tectonic3D in relation to its products, whether in the nature of data, recommendation or otherwise, is supplied by research and, in good faith, believed reliable, but Tectonic3D assumes no liability and make no warranties of any kind, express or implied, including but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage or trade practice whatsoever in respect of application, processing or use made of aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequences from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications. Copyright © Tectonic3D 2022. All rights reserved.

