

# Vega™

## PEKK BASED MATERIAL

Vega™ is a carbon fiber filled PEKK filament, well suited for applications demanding superior heat and FST (Flame, Smoke, Toxicity) resistance. Vega™ produces parts with a matte black surface finish. Engineered for Markforged's Continuous Fiber Reinforcement process, Vega parts can be reinforced with continuous High Temperature Carbon Fiber.



### Features and benefits

High heat and FST resistance

Reinforceable with continuous Carbon Fiber

Matte surface finish

Physical Properties	Unit	Test	Vega™	Test	High Temperature Carbon Fiber (CFR)
Tensile Strength	MPa (ksi)	D638	83 (12)	D3039	760 (110)
Tensile Modulus	GPa (ksi)	D638	5 (725)	D3039	57 (8280)
Elongation at Break	%	D638	4	D3039	–
Flexural Strength	MPa (ksi)	D790	130 (19)	D790	540 (78.3)
Flexural Modulus	GPa (ksi)	D790	4 (580)	D790	50 (7250)
Flexural Extension at Break	%	D790	10	D790	–
HDT (1.8 MPa)	deg C (deg F)	D648 B	157 (315)	D695	190 (374)
HDT (0.45 MPa)	deg C (deg F)	D648 B	164 (327)	D695	190 (374)

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