

KetaSpire® CF10 LS1 AM Filament

polyetheretherketone

KetaSpire® CF10 LS1 AM Filament incorporates 10% carbon fiber reinforcement into a PEEK matrix for increased strength. This material provides long-term performance up to 240 °C, including exceptional chemical resistance. These

properties make it particularly suited for metal replacement in critical applications in severe end-use environments, such as Oil & Gas, Aerospace and Automotive.

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight	
Features	• Chemical Resistant • Ductile • Flame Retardant • Good Dimensional Stability	• Good Impact Resistance • High Heat Resistance • High Strength
Uses	• Aerospace Applications • Automotive Applications	• Oil/Gas Applications
RoHS Compliance	• Contact Manufacturer	
Appearance	• Black	
Forms	• Filament	
Processing Method	• 3D Printing, Fused Filament Fabrication (FFF)	

Physical

	Typical Value	Unit	Test method
Density / Specific Gravity	1.33		ASTM D792

Mechanical

	Typical Value	Unit	Test method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength (Break)	140	MPa	ASTM D638
Tensile Elongation (Break)	1.7	%	ASTM D638

Impact

	Typical Value	Unit	Test method
Notched Izod Impact	89	J/m	ASTM D256

Thermal

	Typical Value	Unit	Test method
Melting Temperature	343	°C	ASTM D3418

Additional Information

	Typical Value	Unit
Diameter - Filament	1.75	mm

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Printing conditions for above data table:

- Filament drying conditions, minimum temperature 4h: 150°C
- Extruder temperature: 390-450°C
- Bed temperature: >200°C
- Printing tool path: 0°

Test specimen parameters:

- First layer: 0.3mm thick
 - Subsequent layers: 0.1mm
 - 100% infill
 - 3 shells
 - Printing speed: 18 mm/s
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Notes

Typical properties: these are not to be construed as specifications.



Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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