

# 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 longterm 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	Asia Pacific	Latin America North America
Filler / Reinforcement	Carbon Fiber, 10% Filler by Weight	
Features	Ductile     Flame Petardant	Good Impact Resistance High Heat Resistance High Strength
Uses	<ul> <li>Aerospace Applications</li> <li>Automotive Applications</li> </ul>	Oil/Gas Applications
RoHS Compliance	Contact Manufacturer	
Appearance	• Black	
Forms	• Filament	
Processing Method	3D Printing, Fused Filament Fabrication (FFF)	
Physical	Typical Valu	e Unit Test method
Density / Specific Gravity	1.3	3 ASTM D792
Mechanical	Typical Valu	e Unit Test method
Tensile Modulus	1100	0 MPa ASTM D638
Tensile Strength (Break)	14	0 MPa ASTM D638
Tensile Elongation (Break)	1	7 % ASTM D638
Impact	Typical Valu	e Unit Test method
Notched Izod Impact	8	9 J/m ASTM D256
Thermal	Typical Valu	e Unit Test method
Melting Temperature	34	3 °C ASTM D3418
Additional Information	Typical Valu	e Unit
Diameter - Filament	1.7	5 mm

# KetaSpire® CF10 LS1 AM Filament

## polyetheretherketone

Printing conditions for above data table:

• Filament drying conditions, minimum 4h: 150°C

• Extruder temperature: 400-440°C

Bed temperature: 180-220°C

Printing tool path: 0°

Test specimen parameters:

First layer: 0.3mm thickSubsequent layers: 0.1mm

100% infill3 shells

• Printing speed: 18 mm/s

### **Notes**

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

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