

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 AmericaNorth America	
Filler / Reinforcement	Carbon Fiber, 10% Filler by Weight		
Features	Chemical ResistantDuctileFlame RetardantGood Dimensional Stability	Good Impact ResistanceHigh Heat ResistanceHigh Strength	
Uses	Aerospace ApplicationsAutomotive 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°CPrinting 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.

www.solvay.com

SpecialtyPolymers.EMEA@solvay.com | Europe, Middle East and Africa SpecialtyPolymers.Americas@solvay.com | Americas SpecialtyPolymers.Asia@solvay.com | Asia and Australia

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