

Solef[®] PVDF AM Filament MSC NT 1 polyvinylidene fluoride

Solef® PVDF AM Filament MSC NT 1 provides long term performance up to 120°C, including exceptional chemical resistance and outstanding UV, weathering and oxidation resistance. The product is also intrinsically endowed of a very high purity. These features make it particularly suited for outdoor applications, and applications in contact with harsh chemical environments, such as Chemical Processing Industry, Semiconductor Industry and Oil&Gas.

Material Status	Limited Distribution			
Availability	 Africa & Middle East Asia Pacific Europe 	 Latin America North America		
Features	 Chemical Resistant Flame Retardant Good Weather Resistance 	 High Purity Oxidation Resise UV Resistant 	Oxidation Resistant	
Uses	 Additive Manufacturing (3D Printing) Industrial Applications 	Oil/Gas ApplicationsPlumbing Parts		
RoHS Compliance	 Contact Manufacturer 			
Appearance	• White			
Forms	• Filament			
Processing Method	 3D Printing, Fused Filament Fabrication (FFF) 			
Physical	Туріс	al Value Unit	Test method	
Density - Specific Gravity ¹		1.72 g/cm³	ASTM D792	
Mechanical	Туріс	al Value Unit	Test method	
Tensile Modulus ²		800 MPa		
Tensile Strength ²			ASTM D638	
Yield	30.0 MPa			
Break	25.0 MPa			
Tensile Elongation ²			ASTM D638	
Yield	10 %			
Break	5	0 to 250 %		
Impact	Туріс	al Value Unit		
Charpy Notched Impact Strer	ngth	6.00 kJ/m²		
Thermal	Τγρία	al Value Unit	Test method	
Melting Temperature		148 °C	ASTM D3418	
Additional Information	Typic	al Value Unit		
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Printing conditions for above data table:

- · Filament drying conditions: drying not needed
- Extruder temperature: 225 235°C
- Bed temperature: 100°C
- Printing tool path: cross hatching in the XY plane

Test specimen parameters:

- Layer thickness: 0.2 mm
- 100% infill
- 3 shells
- Printing speed: 25 mm/s

Notes

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

¹ On 3D printed specimens

² On 3D printed specimens, x-direction

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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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