

## Solef® 5120

## polyvinylidene fluoride

Solef® 5120 PVDF is a medium viscosity grade that gives improved adhesion ideal for its usage in lithium batteries.

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General				
Material Status	<ul> <li>Commercial: Active</li> </ul>			
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li><li> Europe</li></ul>		atin America orth America	
Features • Good Adhesion		<ul> <li>Medium Viscosity</li> </ul>		
Uses	• Batteries	• B	inder	
Physical		Typical Value	Unit	Test method
Density		1.75 to 1.78	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (23	< 3.0	g/10 min	ISO 1133	
Water Absorption <sup>1</sup> (24 hr, 23°C	)	< 0.20	%	ASTM D543
Mechanical		Typical Value	Unit	Test method
Tensile Modulus <sup>2</sup> (23°C)		1000 to 1500	МРа	ASTM D638
Thermal		Typical Value	Unit	Test method
Glass Transition Temperature		-40.0	°C	DSC
Melting Temperature		160 to 168	°C	ASTM D3418
Peak Crystallization Temperatu	124 to 130	°C	ASTM D3418	
Heat of Fusion <sup>3</sup>		38.0 to 48.0	J/g	ASTM D3418
Thermal Stability <sup>4</sup>		> 375	°C	TGA
Electrical		Typical Value	Unit	Test method
Surface Resistivity <sup>5</sup>		> 1.0E+14	ohms	ASTM D257
Volume Resistivity <sup>6</sup>		> 1.0E+14	ohms·cm	ASTM D257
Additional Information				
Intrinsic Viscosity: 0.15 - 0.25 I/g	3			

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#### **Notes**

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

- 130g
- <sup>2</sup> 1.0 mm/min
- 3 80°C to end of melting
- 4 @ 1% weight loss
- <sup>5</sup> Voltage < 1V, after 2 min 500 V @ 23°C
- <sup>6</sup> Intensity = 10 mA, after 2 min @ 23°C

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