

Solef® 5130

polyvinylidene fluoride

Solef® 5130 PVDF is an ultra high viscosity grade that gives the best adhesion ideal for its usage in lithium batteries.

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Material Status	Commercial: Active				
Africa & Middle Eas Availability Asia Pacific Europe		Latin America North America			
Features	 Good Adhesion 	• U	 Ultra High Viscosity 		
Uses	• Batteries	• Binder			
Physical		Typical Value	Unit	Test method	
Density		1.75 to 1.78	g/cm³	ISO 1183	
Water Absorption ¹ (24 hr, 23	°C)	< 0.20	%	ASTM D543	
Mechanical		Typical Value	Unit	Test method	
Tensile Modulus ² (23°C)		1000 to 1500	МРа	ASTM D638	
Thermal		Typical Value	Unit	Test method	
Glass Transition Temperatur	e	-40.0	°C	DSC	
Melting Temperature		160 to 168	°C	ASTM D3418	
Peak Crystallization Temper	135 to 140	°C	ASTM D3418		
Heat of Fusion ³		40.0 to 48.0	J/g	ASTM D3418	
Thermal Stability ⁴		> 375	°C	TGA	
Electrical		Typical Value	Unit	Test method	
Surface Resistivity ⁵		> 1.0E+14	ohms	ASTM D257	
Volume Resistivity ⁶		> 1.0E+14	ohms·cm	ASTM D257	
Additional Information					
Intrinsic Viscosity: 0.27 - 0.37	'I/g				

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Notes

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

- ¹ 30g
- ² 1.0 mm/min
- ³ 80°C to end of melting
- 4 @ 1% weight loss
- 5 Voltage < 1V, after 2 min 500 V @ 23°C
- ⁶ Intensity = 10 mA, after 2 min @ 23°C

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