

Solef® 5120

Polyvinylidene Fluoride

Solvay Specialty Polymers

Message:

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

General Information			
Features	Good adhesion		
	Medium viscosity		
Uses	Battery		
	Adhesive		
Physical	Nominal Value	Unit	Test Method
Density	1.75 - 1.78	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/21.6 kg)	< 3.0	g/10 min	ISO 1133
Water Absorption ¹ (23°C, 24 hr)	< 0.20	%	ASTM D543
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ² (23°C)	1000 - 1500	MPa	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-40.0	°C	DSC
Melting Temperature	160 - 168	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	124 - 130	°C	ASTM D3418
Thermal Stability ³	> 375	°C	TGA
Heat of Fusion ⁴	38.0 - 48.0	J/g	ASTM D3418
Electrical	Nominal 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: 0.15 - 0.25 l/g			
NOTE			
1.	30g		
2.	1.0 mm/min		
3.	1% weight loss		
4.	80°C to the melting end		
5.	Under the condition of 500 V @ 23°C, after 2 minutes, the voltage is <1V		
6.	Current intensity = 10 mA, 23°C, 2 minutes		

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