Solef® 5130

Polyvinylidene Fluoride

Solvay Specialty Polymers

Message:

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

General Information	
Features	Very high viscosity Good adhesion
Uses	Battery Adhesive

Physical	Nominal Value	Unit	Test Method
Density	1.75 - 1.78	g/cm³	ISO 1183
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)	135 - 140	°C	ASTM D3418
Thermal Stability [3]	> 375	°C	TGA
Heat of Fusion [4]	40.0 - 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: 0.27 - 0.37 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

infringement occurs, please contact us immediately.

Recommended distributors for this material

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