

Solef® 75130

polyvinylidene fluoride

Solef® 75130 PVDF copolymer is a ultra high molecular weight, chemically modified grade that combines excellent adhesion, good flexibility and easy solution process, which makes it ideal for usage in lithium batteries.

Main features of Solef® 75130 PVDF are:

- Good adhesion
- Ultra high molecular weight
- Soluble in acetone and ketones
- Good flexibility

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Uses	• Batteries
Processing Method	• Solution Processing

Physical	Typical Value	Unit	Test method
Density	1.75 to 1.78	g/cm ³	ISO 1183
Water Absorption ¹ (24 hr, 23°C)	< 0.20	%	ASTM D543

Mechanical	Typical Value	Unit	Test method
Tensile Modulus ² (23°C)	700 to 1000	MPa	ASTM D638

Thermal	Typical Value	Unit	Test method
Glass Transition Temperature	-40.0	°C	DSC
Melting Temperature	141 to 156	°C	ASTM D3418
Thermal Stability ³	> 375	°C	TGA

Electrical	Typical Value	Unit	Test method
Surface Resistivity ⁴	> 1.0E+14	ohms	ASTM D257
Volume Resistivity ⁵	> 1.0E+14	ohms·cm	ASTM D257

Additional Information

Intrinsic Viscosity: 0.25 - 0.33 l/g

Notes

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

¹ 30g

² 1.0 mm/min

³ @ 1% weight loss

⁴ Voltage < 1V, after 2 min - 500 V @ 23°C

⁵ Intensity = 10 mA, after 2 min @ 23°C

