

Solef® 21510

polyvinylidene fluoride

Solef® 21510 PVDF copolymer has medium viscosity and is suitable for extrusion and for solution processing in lithium batteries applications.

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Material Status	 Commercial: Active 			
Availability	 Africa & Middle East Asia Pacific Europe		atin America orth America	
Features	CopolymerGood Flexibility	Medium Viscosity		
Processing Method	• Extrusion	Solution Processing		
Physical		Typical Value	Unit	Test method
Density / Specific Gravity		1.75 to 1.80	- Chile	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)		3.0 to 9.0	g/10 min	ASTM D1238
Water Absorption (24 hr, 23°C)	, 0,	< 0.040	<u> </u>	ASTM D570
Mechanical		Typical Value	Unit	Test method
Tensile Modulus ¹ (23°C, 2.00 mn	n)	360 to 480		ASTM D638
Tensile Strength ²	•			ASTM D638
Yield, 23°C, 2.00 mm		15.0 to 18.0	MPa	
Break, 23°C, 2.00 mm		20.0 to 40.0	MPa	
Tensile Elongation ²				ASTM D638
Yield, 23°C, 2.00 mm		12 to 15	%	
Break, 23°C, 2.00 mm		600 to 750	%	
Thermal		Typical Value	Unit	Test method
Glass Transition Temperature		-40.0	°C	ASTM D4065
Melting Temperature		130 to 136	°C	ASTM D3418
Peak Crystallization Temperatur	re (DSC)	89.0 to 93.0	°C	ASTM D3418
Crystallization Heat		20.0 to 24.0	J/g	ASTM D3417
Heat of Fusion		20.0 to 24.0	J/g	ASTM D3417
Electrical		Typical Value	Unit	Test method
Surface Resistivity		> 1.0E+14		ASTM D257
Volume Resistivity		> 1.0E+14	ohms·cm	ASTM D257

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Notes

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

- ¹ Type IV, 1.0 mm/min
- ² Type IV, 50 mm/min

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