

## Solvay Specialty Polymers Solef® 21510 Polyvinylidene Fluoride (PVDF) (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), Molded/Extruded

### Material Notes:

Solef® 21510 PVDF copolymer has low viscosity and is suitable for solution processing in lithium batteries applications. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Solef-21510-Polyvinylidene-Fluoride-PVDF-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Solef-21510-Polyvinylidene-Fluoride-PVDF-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.80 g/cc	1.75 - 1.80 g/cc	ASTM D792
Water Absorption	<= 0.040 % @Temperature 23.0 °C, Time 86400 sec	<= 0.040 % @Temperature 73.4 °F, Time 24.0 hour	ASTM D570
Melt Flow	3.0 - 9.0 g/10 min @Load 5.00 kg, Temperature 230 °C	3.0 - 9.0 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 - 40.0 MPa @Thickness 2.00 mm, Temperature 23.0 °C	2900 - 5800 psi @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Tensile Strength, Yield	15.0 - 18.0 MPa @Thickness 2.00 mm, Temperature 23.0 °C	2180 - 2610 psi @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Elongation at Break	600 - 750 % @Thickness 2.00 mm, Temperature 23.0 °C	600 - 750 % @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Elongation at Yield	12 - 15 % @Thickness 2.00 mm, Temperature 23.0 °C	12 - 15 % @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Tensile Modulus	0.360 - 0.480 GPa @Thickness 2.00 mm, Temperature 23.0 °C	52.2 - 69.6 ksi @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 1.0 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Heat of Fusion	20.0 - 24.0 J/g	8.60 - 10.3 BTU/lb	Crystallization Heat; ASTM D3417

Thermal Properties	20.0 - 24.0 J/g Metric	8.60 - 10.3 BTU/lb English	ASTM D3417 Comments
Melting Point	130 - 136 °C	266 - 277 °F	ASTM D3418
Crystallization Temperature	89.0 - 93.0 °C	192 - 199 °F	Peak, DSC; ASTM D3418
Glass Transition Temp, Tg	-40.0 °C	-40.0 °F	ASTM D4065

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	ASTM D257

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Copolymer	
	Low Viscosity	
Generic	PVDF	
Processing Method	Solution Processing	
Uses	Batteries	

## Contact Songhan Plastic Technology Co.,Ltd.

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