

Solvay Specialty Polymers Solef® 21510 Polyvinylidene Fluoride (PVDF)

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

Material Notes:

Solef® 21510 PVDF copolymer has medium viscosity and is suitable for extrusion and for solution processing in lithium batteries applications. Features: Copolymer; Good Flexibility; Medium Viscosity Additional Properties: Crystallization Heat - ASTM D3417 20.0 to 24.0 J/g; Heat of Fusion - ASTM D3417 20.0 to 24.0 J/g 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.php

Physical Properties	Metric	English	Comments
Density	1.75 - 1.80 g/cc	0.0632 - 0.0650 lb/in ³	ASTM D792
Water Absorption	<= 0.040 % @Time 86400 sec	<= 0.040 % @Time 24.0 hour	ISO 62
Melt Flow	3.0 - 9.0 g/10 min @Load 5.00 kg, Temperature 230 Â°C	3.0 - 9.0 g/10 min @Load 11.0 lb, Temperature 446 Â°F	ASTM D1238

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

Thermal Properties	Metric	English	Comments
Melting Point	130 - 136 Â°C	266 - 277 Â°F	DSC
Crystallization Temperature	89.0 - 93.0 Â°C	192 - 199 Â°F	Peak; ASTM D3418
Glass Transition Temp, Tg	-40.0 Â°C	-40.0 Â°F	ASTM E1356

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	ASTM D257

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Processing Technique	Extrusion; Solution Processing	

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