Solvay Specialty Polymers Solef® 5130 Polyvinylidene Fluoride (PVDF) (Unverified Data**)

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

Material Notes:

Solef® 5130 PVDF has an ultra high viscosity ideal for its usage in lithium batteries.Additional Information: Intrinsic Viscosity: 0.27 - 0.37 l/gInformation provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Solef-5130-Polyvinylidene-Fluoride-PVDF-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.75 - 1.78 g/cc	0.0632 - 0.0643 lb/in³	ISO 1183
Water Absorption	<= 0.20 % @Temperature 23.0 °C, Time 86400 sec	<= 0.20 % @Temperature 73.4 °F, Time 24.0 hour	30g; ASTM D543

Mechanical Properties	Metric	English	Comments
Tensile Modulus	1.00 - 1.50 GPa @Temperature 23.0 °C	145 - 218 ksi @Temperature 73.4 °F	1.0 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Heat of Fusion	40.0 - 48.0 J/g	17.2 - 20.6 BTU/lb	80°C to end of melting; ASTM D3418
Melting Point	158 - 166 °C	316 - 331 °F	ASTM D3418
Crystallization Temperature	135 - 140 °C	275 - 284 °F	Peak, DSC; ASTM D3418
Glass Transition Temp, Tg	-40.0 °C	-40.0 °F	DSC
Decomposition Temperature	>= 375 °C	>= 707 °F	@ 1% weight loss; TGA

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	Intensity = 10 mA, after 2 min @ 23°C; ASTM D257
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	Voltage < 1V, after 2 min - 500 V @ 23°C; ASTM D257

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	

Descriptive Properties	Value	Comments
	Europe	
	North America	
	South America	
Features	Very high Viscosity	
Generic	PVDF	
Uses	Batteries	
	Binder	

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