Solvay Specialty Polymers SolefÂ® 6020 Polyvinylidene Fluoride (PVDF)

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

Material Notes:

SolefÂ® 6020 PVDF homopolymer has very high viscosity for membranes and lithium batteries. It is available exclusively as powder.Features: Homopolymer; Ultra High ViscosityUses: Batteries; MembranesAdditional Properties: Crystallization Heat - ASTM D3417 47.0 to 52.0 J/g; Heat of Fusion - ASTM D3417 57.0 to 66.0 J/gInformation provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Solef-6020-Polyvinylidene-Fluoride-PVDF.php

Physical Properties	Metric	English	Comments
Density	1.75 - 1.80 g/cc	0.0632 - 0.0650 lb/inÂ³	ASTM D792
Water Absorption	<= 0.040 % @Time 86400 sec	<= 0.040 % @Time 24.0 hour	ISO 62
Melt Flow	<= 2.0 g/10 min @Load 21.6 kg, Temperature 230 Â°C	<= 2.0 g/10 min @Load 47.6 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 - 50.0 MPa @Thickness 2.00 mm	3630 - 7250 psi @Thickness 0.0787 in	50 mm/min; ASTM D638
Tensile Strength, Yield	53.0 - 57.0 MPa @Thickness 2.00 mm	7690 - 8270 psi @Thickness 0.0787 in	50 mm/min; ASTM D638
Elongation at Break	15 - 50 %	15 - 50 %	50 mm/min; ASTM D638
Elongation at Yield	5.0 - 10 %	5.0 - 10 %	50 mm/min; ASTM D638
Tensile Modulus	1.60 - 1.70 GPa @Thickness 2.00 mm	232 - 247 ksi @Thickness 0.0787 in	1.0 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	171 - 175 Â°C	340 - 347 Â°F	DSC
Crystallization Temperature	133 - 138 Â°C	271 - 280 Â°F	Peak; ASTM D3418
Glass Transition Temp, Tg	-40.0 Â°C	-40.0 Â°F	ASTM E1356

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

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Form	Powder	

Contact Songhan Plastic Technology Co.,Ltd.

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