

Solvay Specialty Polymers Solef® 6020 Polyvinylidene Fluoride (PVDF) (Unverified Data**)

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

Material Notes:

Solef® 6020 PVDF homopolymer has very high viscosity for membranes and lithium batteries. It is available exclusively as powder. Information 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-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	<= 0.20 g/10 min @Load 21.6 kg, Temperature 230 °C	<= 0.20 g/10 min @Load 47.6 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 - 50.0 MPa @Thickness 2.00 mm, Temperature 23.0 °C	3630 - 7250 psi @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Tensile Strength, Yield	53.0 - 57.0 MPa @Thickness 2.00 mm, Temperature 23.0 °C	7690 - 8270 psi @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Elongation at Break	15 - 50 % @Thickness 2.00 mm, Temperature 23.0 °C	15 - 50 % @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Elongation at Yield	5.0 - 10 % @Thickness 2.00 mm, Temperature 23.0 °C	5.0 - 10 % @Thickness 0.0787 in, Temperature 73.4 °F	Type IV, 50 mm/min; ASTM D638
Tensile Modulus	1.60 - 1.70 GPa @Thickness 2.00 mm, Temperature 23.0 °C	232 - 247 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	47.0 - 52.0 J/g	20.2 - 22.4 BTU/lb	Crystallization Heat; ASTM D3417

Thermal Properties	57.0 - 66.0 J/g Metric	24.9 - 28.4 BTU/lb English	ASTM D3417 Comments
Melting Point	171 - 175 °C	340 - 347 °F	ASTM D3418
Crystallization Temperature	133 - 138 °C	271 - 280 °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	Homopolymer	
	Very high Viscosity	
Forms	Powder	
Generic	PVDF	
Uses	Batteries	
	Membranes	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China