

Solvay Specialty Polymers Ajedumâ„ç PVDF 9009 Polyvinylidene Fluoride (PVDF)

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

Material Notes:

Solef® 9009 PVDF homopolymer is a semi-crystalline fluoropolymer. Solef® film is chemically inert to most acids, aliphatic and aromatic organic compounds, chlorinated solvents and alcohols. Features: Homopolymer Additional Properties: Area Factor - 108 ft²/lb/mil Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ajedum-PVDF-9009-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
Thickness	25.0 microns	0.984 mil	As Tested

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	55.0 MPa	7980 psi	ASTM D882
Film Tensile Strength at Yield, TD	56.0 MPa	8120 psi	ASTM D882
Film Elongation at Break, MD	200 %	200 %	ASTM D882
Film Elongation at Break, TD	250 %	250 %	ASTM D882
Film Elongation at Yield, MD	6.0 %	6.0 %	ASTM D882
Film Elongation at Yield, TD	6.2 %	6.2 %	ASTM D882
Secant Modulus, MD	2.00 GPa	290 ksi	ASTM D882
Secant Modulus, TD	2.10 GPa	305 ksi	ASTM D882
Coefficient of Friction, Dynamic	0.15 - 0.35	0.15 - 0.35	vs. Itself; ASTM D1894
Coefficient of Friction, Static	0.20 - 0.40	0.20 - 0.40	vs. Itself; ASTM D1894
Taber Abrasion, mg/1000 Cycles	5.0 - 10	5.0 - 10	CS-10 Wheel, 1000 g; ASTM D1044
Film Tensile Strength at Break, MD	57.0 MPa	8270 psi	ASTM D882
Film Tensile Strength at Break, TD	54.0 MPa	7830 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.60 J/g-Â°C @Temperature 100 Â°C	0.382 BTU/lb-Â°F @Temperature 212 Â°F	ASTM C351
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ftÂ²-Â°F	ASTM C177
Melting Point	162 - 168 Â°C	324 - 334 Â°F	DSC
Crystallization Temperature	133 - 140 Â°C	271 - 284 Â°F	Peak; ASTM D3418
Glass Transition Temp, Tg	-40.0 Â°C	-40.0 Â°F	ASTM E1356
Oxygen Index	44 % @Thickness 3.00 mm	44 % @Thickness 0.118 in	ASTM D2863
Shrinkage	0.70 % @Temperature 130 Â°C	0.70 % @Temperature 266 Â°F	Free Shrinkage; ASTM D2732

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
Dielectric Constant	7.5	7.5	ASTM D150
Dielectric Strength	20.0 - 25.0 kV/mm @Thickness 1.00 mm	508 - 635 kV/in @Thickness 0.0394 in	ASTM D149

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	

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