

Solvay Specialty Polymers Solef[®] 9007 Polyvinylidene Fluoride (PVDF)

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

Material Notes:

Solef[®] 9007 PVDF homopolymer has low viscosity and is used in film extrusion and injection molding. Features: Homopolymer; Low Viscosity
 Additional Properties: Crystallization Heat - ASTM D3418 53.0 to 60.0 J/g; Heat of Fusion - ASTM D3418 53.0 to 60.0 J/g
 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Solef-9007-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
Linear Mold Shrinkage, Flow	0.020 - 0.030 cm/cm	0.020 - 0.030 in/in	
Melt Flow	16 - 26 g/10 min @Load 3.80 kg, Temperature 230 Â°C	16 - 26 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D1238
	20 - 38 g/10 min @Load 5.00 kg, Temperature 230 Â°C	20 - 38 g/10 min @Load 11.0 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73 - 80	73 - 80	1 sec; ASTM D2240
Tensile Strength at Break	30.0 - 50.0 MPa @Thickness 2.00 mm	4350 - 7250 psi @Thickness 0.0787 in	50 mm/min; ASTM D638
Tensile Strength, Yield	45.0 - 60.0 MPa @Thickness 2.00 mm	6530 - 8700 psi @Thickness 0.0787 in	50 mm/min; ASTM D638
Elongation at Break	20 - 300 %	20 - 300 %	50 mm/min; ASTM D638
Elongation at Yield	5.0 - 10 %	5.0 - 10 %	50 mm/min; ASTM D638
Tensile Modulus	1.40 - 2.20 GPa @Thickness 2.00 mm	203 - 319 ksi @Thickness 0.0787 in	1.0 mm/min; ASTM D638
Izod Impact, Notched	0.600 - 1.20 J/cm @Thickness 4.00 mm	1.12 - 2.25 ft-lb/in @Thickness 0.157 in	ASTM D256

Coefficient of Friction, Dynamic Mechanical Properties	0.15 - 0.35 Metric	0.15 - 0.35 English	vs. Itself; ASTM D1894 Comments
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

Thermal Properties	Metric	English	Comments
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
Flammability, UL94	V-0 @Thickness 0.100 mm	V-0 @Thickness 0.00394 in	
Oxygen Index	44 % @Thickness 3.00 mm	44 % @Thickness 0.118 in	ASTM D2863

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	7.0 - 10 @Frequency 1000 Hz	7.0 - 10 @Frequency 1000 Hz	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	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Processing Technique	Film Extrusion; Injection Molding	

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