

Solvay Specialty Polymers Solef® 32008 Polyvinylidene Fluoride (PVDF)

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

Material Notes:

Solef® 32008 PVDF copolymer is a low viscosity and very flexible grade for Wire & Cable applications. Features: Copolymer; Good Flexibility; Low Viscosity Uses: Wire & Cable Applications Additional Properties: Crystallization Heat - ASTM D3417 15.0 to 22.0 J/g; Heat of Fusion - ASTM D3417 15.0 to 22.0 J/g Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Solef-32008-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	3.0 - 8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 - 8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47	47	ASTM D2240
Tensile Strength at Break	14.0 - 30.0 MPa @Thickness 2.00 mm	2030 - 4350 psi @Thickness 0.0787 in	50 mm/min; ASTM D638
Tensile Strength, Yield	14.0 - 35.0 MPa @Thickness 2.00 mm	2030 - 5080 psi @Thickness 0.0787 in	50 mm/min; ASTM D638
Elongation at Break	350 - 600 %	350 - 600 %	50 mm/min; ASTM D638
Elongation at Yield	10 - 12 %	10 - 12 %	50 mm/min; ASTM D638
Tensile Modulus	0.100 - 0.300 GPa @Thickness 2.00 mm	14.5 - 43.5 ksi @Thickness 0.0787 in	1.0 mm/min; ASTM D638
Izod Impact, Notched	NB @Thickness 4.00 mm	NB @Thickness 0.157 in	ASTM D256
Coefficient of Friction	0.20 - 0.40	0.20 - 0.40	vs. Itself; ASTM D1894
Coefficient of Friction, Dynamic	0.20 - 0.30	0.20 - 0.30	vs. Itself; ASTM D1894
Taber Abrasion, mg/1000 Cycles	5.0 - 15	5.0 - 15	CS-10 Wheel, 1000 g; ASTM D1044

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 - 150 Âµm/m-Â°C	72.2 - 83.3 Âµin/in-Â°F	1
	@Temperature 0.000 - 40.0 Â°C	@Temperature 32.0 - 104 Â°F	
Specific Heat Capacity	1.20 J/g-Â°C	0.287 BTU/lb-Â°F	ASTM C351
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.60 J/g-Â°C	0.382 BTU/lb-Â°F	ASTM C351
	@Temperature 100 Â°C	@Temperature 212 Â°F	
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ftÂ²-Â°F	ASTM C177
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Melting Point	165 - 170 Â°C	329 - 338 Â°F	DSC
Crystallization Temperature	125 - 130 Â°C	257 - 266 Â°F	Peak; ASTM D3418
Vicat Softening Point	75.0 Â°C	167 Â°F	Rate A (50Â°C/h), Loading 2 (50 N)
Glass Transition Temp, Tg	-28.0 Â°C	-18.4 Â°F	ASTM E1356
Oxygen Index	48 %	48 %	ASTM D2863
	@Thickness 3.00 mm	@Thickness 0.118 in	

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	7.0	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.0 - 25.0 kV/mm	508 - 635 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	

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

Descriptive Properties	Value North America	Comments
Form	Granules	

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