Solvay Specialty Polymers Solef® 3208/0150 Anti-friction PVDF Compound (discontinued **)

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

Material Notes:

Key features of this grade: Anti-friction, Formulated. Recommended processing is injection. Available as granules.General information about SOLEF® PVDF: SOLEF® PVDF is a fluorinated semi-crystalline thermoplastic which is obtained by polymerizing vinylidene fluoride. Important properties include excellent chemical resistance to most aggressive substances and solvents, excellent mechanical strength and toughness, high abrasion resistance, high temperature capabilities, excellent aging resistance, high purity, resistance to UV and nuclear radiation, excellent intrinsic fire resistance, resistance to weathering, low permeability to most gases and liquids, and easily melt-processed by standard methods of molding and extrusion.Tensile properties are achieved with varying methods of sample fabrication. Information provided by Solvay Solexis, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Solef-32080150-Anti-friction-PVDF-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in³	ISO 1183
Water Absorption	<= 0.040 %	<= 0.040 %	ISO 62 (method 1)
Linear Mold Shrinkage	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238
	24 g/10 min @Load 5.00 kg, Temperature 230 °C	24 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78 @Thickness 2.00 mm	78 @Thickness 0.0787 in	ASTM D2240
Tensile Strength, Ultimate	40.0 - 60.0 MPa	5800 - 8700 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	52.0 - 56.0 MPa	7540 - 8120 psi	50 mm/min; ASTM D638
Elongation at Break	20 - 50 %	20 - 50 %	50 mm/min; ASTM D638
Elongation at Yield	5.0 - 7.0 %	5.0 - 7.0 %	50 mm/min; ASTM D638
Modulus of Elasticity	2.60 GPa	377 ksi	1 mm/min; ASTM D638
Flexural Yield Strength	78.0 MPa	11300 psi	2 mm/min; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ASTM D790
Izod Impact, Notched	0.600 J/cm @Thickness 4.00 mm, Temperature 23.0 °C	1.12 ft-lb/in @Thickness 0.157 in, Temperature 73.4 °F	Notched V 10 mm; ASTM D256
Coefficient of Friction	<= 0.20	<= 0.20	ASTM D1894
Coefficient of Friction, Static	<= 0.20	<= 0.20	ASTM D1894
Taber Abrasion, mg/1000 Cycles	5.0 - 10	5.0 - 10	CS10 / 1 kg

Thermal Properties	Metric	English	Comments
Heat of Fusion	59.0 J/g	25.4 BTU/lb	Crystallization Heat
	67.0 J/g	28.8 BTU/lb	80°C to end of melting
CTE, linear	120 - 140 µm/m-°C @Temperature 20.0 °C	66.7 - 77.8 µin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft²-°F	ASTM C177
Melting Point	174 °C	345 °F	Crystallinity by DSC; ASTM D 3418
Crystallization Temperature	140 °C	284 °F	
Deflection Temperature at 0.46 MPa (66 psi)	148 °C @Thickness 4.00 mm	298 °F @Thickness 0.157 in	after annealing 150°C 16 hr; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	115 °C @Thickness 4.00 mm	239 °F @Thickness 0.157 in	after annealing 150°C 16 hr; ASTM D648
Vicat Softening Point	168 °C @Load 1.00 kg, Thickness 4.00 mm	334 °F @Load 2.20 lb, Thickness 0.157 in	ISO 306
Brittleness Temperature	>= 0.000 °C	>= 32.0 °F	ASTM D746A
Glass Transition Temp, Tg	-40.0 °C	-40.0 °F	DMTA
Decomposition Temperature	375 - 400 °C	707 - 752 °F	Thermal Stability via TGA : beginning - and at 1% weight loss in air

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	Intensity = 10 mA after 2 min @ 23°C; ASTM D 257; DIN 53483
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	Voltage < 1 V after 2 min - 500 V; ASTM D 257/DIN 53483

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