

Solvay Specialty Polymers Solef® 41308 Polyvinylidene Fluoride (PVDF) (Unverified Data**)

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

Material Notes:

Solef® 41308/0001 PVDF is specifically developed for coextrusion. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Solef-41308-Polyvinylidene-Fluoride-PVDF-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in³	ISO 1183
Water Absorption	<= 0.040 % @Temperature 23.0 °C, Time 86400 sec	<= 0.040 % @Temperature 73.4 °F, Time 24.0 hour	Method 1; ISO 62
Melt Flow	6.0 - 8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	6.0 - 8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238
	18 - 24 g/10 min @Load 5.00 kg, Temperature 230 °C	18 - 24 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa @Temperature 23.0 °C	4350 psi @Temperature 73.4 °F	50 mm/min; ASTM D638
Tensile Strength, Yield	48.0 MPa @Temperature 23.0 °C	6960 psi @Temperature 73.4 °F	50 mm/min; ASTM D638
Elongation at Yield	7.0 % @Temperature 23.0 °C	7.0 % @Temperature 73.4 °F	50 mm/min; ASTM D638
Tensile Modulus	1.90 GPa @Temperature 23.0 °C	276 ksi @Temperature 73.4 °F	1.0 mm/min; ASTM D638
Charpy Impact, Notched	0.850 J/cm²	4.04 ft-lb/in²	4 mm thick, 2 m/s; ASTM D256
Coefficient of Friction, Dynamic	0.31	0.31	vs. Itself; ASTM D1894
Coefficient of Friction, Static	0.32	0.32	vs. Itself; ASTM D1894
Taber Abrasion, mg/1000 Cycles	8.0 @Load 1.00 kg	8.0 @Load 2.20 lb	CS-10 Wheel; ISO 5470-1

Thermal Properties	Metric	English	Comments
Heat of Fusion	51.6 J/g	22.2 BTU/lb	Crystallization Heat; ASTM D3418
	52.7 J/g	22.7 BTU/lb	80°C to end of melting; ASTM D3418
Melting Point	169 °C	336 °F	ASTM D3418
Crystallization Temperature	136 °C	277 °F	Peak, DSC; ASTM D3418

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	
Generic	PVDF	
Processing Method	Coextrusion	

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