

Solvay Specialty Polymers Solef[®] 41308 Polyvinylidene Fluoride (PVDF)

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

Material Notes:

Solef[®] 41308/0001 PVDF is specifically developed for coextrusion. Additional Properties: Crystallization Heat - ASTM D3418 51.6 J/g; Heat of Fusion - ASTM D3418 52.7 J/g. 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.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ISO 1183
Water Absorption	<= 0.040 % @Time 86400 sec	<= 0.040 % @Time 24.0 hour	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	4350 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	48.0 MPa	6960 psi	50 mm/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	50 mm/min; ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	1.0 mm/min; ASTM D638
Charpy Impact, Notched	0.850 J/cm ²	4.04 ft-lb/in ²	ISO 179
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	8.0	CS-10 Wheel, 1000 g; ASTM D1044

Thermal Properties	Metric	English	Comments
Melting Point	169 °C	336 °F	DSC
Crystallization Temperature	136 °C	277 °F	Peak; ASTM D3418

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{14}$ ohm-cm	$\geq 1.00 \times 10^{14}$ ohm-cm	ASTM D257
Surface Resistance	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	ASTM D257

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Processing Technique	Coextrusion	

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