Solvay Specialty Polymers SolefÂ® 20808 Polyvinylidene Fluoride (PVDF)

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

Material Notes:

Copolymer; Low ViscosityAdditional Properties: Abrasion Resistance - ASTM D4060 29.0 mg; Coefficient of Friction - ASTM D1894 0.280; Coefficient of Linear Thermal Expansion - ASTM D696 1.4E-4 to 1.6E-4 cm/cm/Â°C; Crystallization Heat - ASTM D3417 35.0 J/g; Crystallization Point - ASTM D3418 120 Â°C; Density - ISO 1183 1.783 g/cmÂ³; Dielectric Constant - ASTM D150 6.80; Flammability - UL 94 V-0; Glass Transition Temperature - ASTM D4065 -50.0 Â°C; Hardness - ASTM D2240 (2.00 mm): 71.0; Heat of Fusion - ASTM D3418 35.0 J/g; Izod Impact - ASTM D256 86.0 J/m; Thermal Stability - 410 Â°CInformation provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Solef-20808-Polyvinylidene-Fluoride-PVDF.php

Physical Properties	Metric	English	Comments
Water Absorption	<= 0.040 % @Time 86400 sec	<= 0.040 % @Time 24.0 hour	ISO 62
Melt Flow	5.4 g/10 min @Load 2.16 kg, Temperature 230 Â°C	5.4 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	33.0 MPa	4790 psi	50 mm/min; ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Elongation at Yield	10 %	10 %	50 mm/min; ASTM D638
Tensile Modulus	1.08 GPa	157 ksi	1.0 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.20 J/g-Â°C @Temperature 23.0 Â°C	0.287 BTU/lb-Â°F @Temperature 73.4 Â°F	ASTM C351
	1.60 J/g-Â°C @Temperature 100 Â°C	0.382 BTU/lb-Â°F @Temperature 212 Â°F	ASTM C351
Thermal Conductivity	0.200 W/m-K @Temperature 23.0 Â°C	1.39 BTU-in/hr-ftÂ²-Â°F @Temperature 73.4 Â°F	ASTM C177
Melting Point	148 Â°C	298 Â°F	DSC

Thermal Properties	Metric	English	Comments
Oxygen Index	@Thickness 3.00 mm	@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

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

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