

Kureha KF Polymer 1000 PVDF Homopolymer

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

Material Notes:

KF Polymer is a fire-resistant engineering plastic which maintains the excellent performance of a fluoropolymer. It shows well-balanced molding processability similar to general-purpose resins. KF polymer is being used in applications where heat resistance, anticorrosion, and weather-resistance are important. Typical Applications: Chemical valves, Pump part, & Fittings Binder for lithium ion batteries Hollow fiber for filtration of city water and sewage Film & Sheet Information provided by Kureha.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kureha-KF-Polymer-1000-PVDF-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	1.77 - 1.79 g/cc	0.0639 - 0.0647 lb/in ³	ASTM D792
Viscosity	2200 cP @Shear Rate 50.0 1/s, Temperature 240 Â°C	2200 cP @Shear Rate 50.0 1/s, Temperature 464 Â°F	Melt; ASTM D3835
Viscosity Test	1.0 cm ³ /g @Temperature 30.0 Â°C	1.0 cm ³ /g @Temperature 86.0 Â°F	Inherent Viscosity in DMF Solution
Melt Flow	6.0 - 9.0 g/10 min @Load 5.00 kg, Temperature 230 Â°C	6.0 - 9.0 g/10 min @Load 11.0 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.0 MPa	8270 psi	ISO 527-2
Elongation at Break	28 %	28 %	ISO 527-2
Tensile Modulus	2.33 GPa	338 ksi	ISO 527-2

Thermal Properties	Metric	English	Comments
Melting Point	173 Â°C	343 Â°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	79.0 Â°C	174 Â°F	ISO 75-2
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1e+15 - 1e+16 ohm-cm	1e+15 - 1e+16 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
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