

KF 1700

Polyvinylidene Fluoride

Kureha Corporation

Message:

KF 1700 PVDF homopolymer is an ultra-high viscosity PVDF ideal for usage in lithium batteries. It is available exclusively as powder.

General Information			
Features	Homopolymer		
	Ultra High Viscosity		
Uses	Membranes		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77 to 1.79	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/21.6 kg)	1.7	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Solution Viscosity - DMF (30°C)	170	cm ³ /g	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-35.0	°C	DMA
Peak Melting Temperature	173	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	140	°C	ASTM D3418
CLTE - Flow (23 to 80°C)	1.6E-4	cm/cm/°C	ISO 11359-2
Specific Heat (23°C)	1200	J/kg/°C	JIS K7123
Thermal Conductivity (23°C)	0.17	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+14 to 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength (0.0340 mm)	300	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (equivalent)	V-0		UL 94
Oxygen Index ¹	44	%	ISO 4589-2
Optical	Nominal Value		Test Method
Refractive Index ²	1.420		ASTM D542
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (260°C, 50.0 sec ⁻¹)	9100	Pa · s	ASTM D3835
NOTE			
1.	Type-IV		
2.	25°C		

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