KF 1550

Polyvinylidene Fluoride

Kureha Corporation

Message:

KF 1550 PVDF homopolymer is a very high viscosity PVDF suitable for membrane manufacturing. It is available exclusively as powder.

General Information			
Features	High Viscosity Homopolymer		
Uses	Membranes		
Forms	Powder		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.77 to 1.79	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/21.6 kg)	3.8	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Solution Viscosity - DMF (30°C)	150	cm³/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
NOTE			
1.	Type-IV		
2.	25°C		

Recommended distributors for this material

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