

KF POLYMER

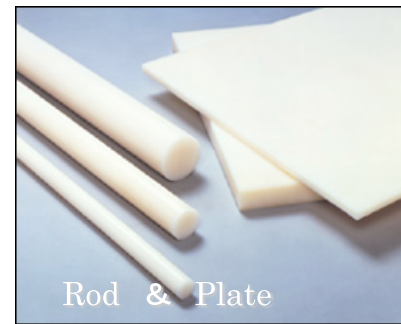
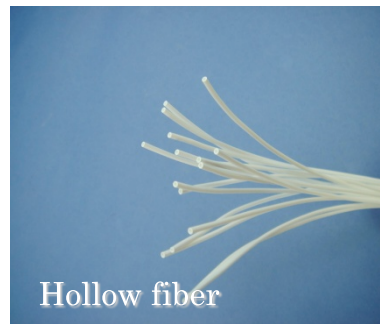
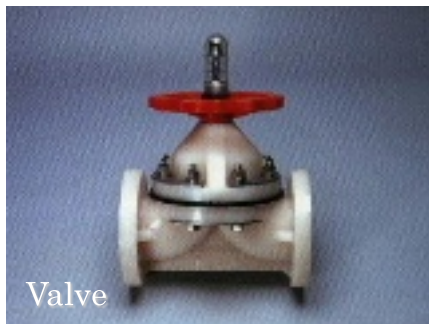
(PVDF Polyvinylidene Fluoride)

Features of KF Polymer

KF Polymer is a fire-resistant engineering plastic which maintains the excellent performance of a fluoro-resin. 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 key use criteria .

Typical Applications

- ◇ Chemical valves, Pump part, & Fittings
- ◇ Binder for lithium ion batteries
- ◇ Hollow fiber for filtration of city water and sewage
- ◇ Film & Sheet



Typical Properties of KF Polymer

Properties			Polymer Type	Homo				Co
			Grade	T#, W#				
Item	Unit	Standard	Conditions	850	1000	1100	1300	2950
Physical properties								
Relative density	g/cm ³	ASTM D792		1.77 - 1.79				
Solution viscosity (Inherent viscosity)	dl/g		30°C DMF ±0.05	0.85	1.00	1.10	1.30	1.05
Melt viscosity	Pa·s	ASTM D3835	240°C 50sec ⁻¹	1200	2200	3300	5000	2700
MFR	g/10min	ASTM D1238	230°C 5kg	18-26	6-9	2-4	0.6-0.9	4-8
Thermal properties								
Melting point	°C	ASTM D3418		173	173	173	173	172
Heat distortion temperature	°C	ISO 75-2	1.8MPa	80	79	75	72	70
Mechanical properties								
Tensile yield strength	MPa	ISO 527-2		57	57	59	67	54
Tensile break elongation	%			76	28	36	25	29
Tensile modulus	MPa			2510	2330	2430	2580	2120
Electrical properties								
Volume resistivity	Ω cm	ASTM D257		10 ¹⁵⁻¹⁶				
Flame resistance								
Burning Rate		UL94	1.47mm ^t	V-0				

Thank you for interest in our “KF Polymer” data sheet.

The data contained in this data sheet are based on our knowledge and experience at the time of publication. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigation and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose.