

Design Properties for Engineers: Electrical and Dielectric Properties of High Performance Polymers

Polymer	Electrical Properties			Dielectric Properties			
	Volume Resistivity ($\Omega \times \text{cm}$)	Surface Resistivity (Ω)	Dielectric Strength (kV/mm)	Dielectric Constant (Permittivity) ϵ @ 100 Hz	Dielectric Constant (Permittivity) ϵ @ 1 MHz	Dissipation factor (Df) $\tan \sigma$ @ 100 Hz	Dissipation factor (Df) $\tan \sigma$ @ 1 MHz
PTFE	$>10^{14}$	$>10^{13}$	> 50	2.1	2.1	0.0003	0.0007
PVDF	$>10^{14}$	$>10^{13}$	18	7.4	6	0.025	0.165
PSU	$>10^{14}$	$>10^{13}$	30	3	3	0.001	0.003
PPSU	$>10^{14}$	$>10^{13}$	30	3.4	3.5	0.001	0.005
PPA (conditioned)	$>10^{16}$	$>10^{13}$	17	3.8	3.8	0.018	0.035
LCP	$>10^{16}$	$>10^{12}$	39	4.2	3.9	/	0.013
PPS	$>10^{14}$	$>10^{13}$	21	3.3	3.3	0.003	0.003
PEEK	$>10^{14}$	$>10^{13}$	24	3.2	3.2	0.001	0.002
PI	$>10^{14}$	$>10^{13}$	28	3.6	3.6	0.002	0.003
PAI	$>10^{14}$	$>10^{13}$	24	4.2	3.9	0.026	0.031
PBI	$>10^{14}$	$>10^{13}$	22	3.3	3.2	0.001	/
PEI	$>10^{14}$	$>10^{13}$	27	3	3	0.002	0.002

Electrical Properties Of Polymers

Jicheng Xie



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