

## 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 ( $\Omega$ )	Dielectric Strength (kV/mm)	Dielectric Constant (Permittivity) $\epsilon$ @ 100 Hz	Dielectric Constant (Permittivity) $\epsilon$ @ 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

**Chi Kong Law**



## **Electrical Properties Of Polymers:**

## Unveiling the Magic of Words: A Overview of "**Electrical Properties Of Polymers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Electrical Properties Of Polymers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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