

Engineering Plastics - PTFE

Stock		Electrical Properties				
Dia (mm)	Weight (kg/m)	Property	Parameter	Value	e Norm	
4	0.030	Specific Surface Resistance		10 ¹⁶ !	ASTM D	
5	0.046	Specific Surface Resistance			257	
6	0.067	Specific Volume Resistance		10 ¹⁷ Ω*cm	ASTM D 257	
8	0.117		in air, thickness 0.125mm	80	ASTM D	
10	0.182	Dielectric Strength		kV/m		
12	0.269	Dielectric Constant	50-109 Hz	2.1	ASTM D 150	
14	0.362					
15	0.414	Manhaniaal Duamantiaa				
16	0.470	Mechanical Properties				
18	0.591	Property	Parameter	Value	Norm	
20	0.727	Tensile Strength		22 MPa	ASTM D 489	
22	0.892	Elongation at Break		220%	ASTM D 489	
25	1.14	Compression Strength	1% deformation	5 MPa	ASTM D 695	
28	1.43	Shore Hardness	Shore D	55	ASTM D 224	
30	1.66	Other properties				
32	1.88		Parameter	Value N	orm	
35	2.24	Property Parameter Value			OIIII	
40	2.94	Water Absorption	23°C	0.01% ASTM D 570		
45	3.70	— Flamability (UL94)	corresponding	V0 D	N IEC 60695-	
50	4.54	to		1	11-10	
55	5.54					
60	6.56	Thermal Properties				
65	7.70	Property	Parameter	Value	Norm	
70	8.90	Glass Transition Temperature		-20 °C	DIN 53765	
75	10.25	Service Temperature	short term	260 °C		
80	11.63	Service Temperature	long term	260 °C		
90	14.65	Thermal Expansion (CLTE)	25 - 100°C long	13 10 ⁻⁵ K ⁻¹	ASTM D 696	
100	18.17		- 3	0.20	ASTM C	
110	21.91	Thermal Conductivity		W/(K*m)	177	
120	26.00					
130	30.40					
140	35.70					
150	40.90					
160	46.40	_				

Disclaimer

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