

Typical Properties

metastar® YT511

Nominal Thickness	mil	5	7	10	15	23	Test Method
	mm	0.13	0.18	0.25	0.38	0.58	
Typical Thickness	mil	5.3	6.9	10.1	15.7	22.9	GB/T451.3-2002
	mm	0.13	0.17	0.25	0.39	0.57	
Basis Weight	g/m ²	42	64	82	155	200	GB/T451.2-2002
Density	g/cc	0.31	0.37	0.32	0.39	0.35	
Tensile Strength N/cm	MD	25	40	60	145	170	GB/T12914-2008
	CD	13	21	32	68	85	
Elongation %	MD	3.3	3.7	4.5	5.5	6.0	
	CD	4.5	5.0	5.5	6.5	7.0	
Elmendorf Tear N	MD	1.2	1.8	2.0	4.5	8.5	GB/T455-2002
	CD	1.8	3.0	3.5	7.0	9.0	
Dielectric Strength	V/mil	225	225	200	200	175	GB/T1408.1-2006
	kV/mm	9	9	8	8	7	
Dielectric Constant ¹⁾	50Hz	1.3	1.3	1.3	1.4	1.4	GB/T1409-2006
Dissipation Factor ²⁾	50Hz ×10 ⁻³	4	4	4	5	5	
Shrinkage at 240°C %	MD	0.4	0.4	0.4	0.4	0.4	IEC60819-2:2002
	CD	0.2	0.2	0.2	0.2	0.2	

MD=Machine Direction; CD=Cross Direction

* 1) Frequency 50Hz, rapid rise ; 2)Using 50-mm electrodes, frequency 50Hz。

NOTE : The properties in this technical data sheet are typical values and should not be used as specification limits. Unless otherwise noted, all properties were measured in air under “standard” conditions (in equilibrium at 23°C, 50% relative humidity).This information may be subject to revision as new knowledge and experience become available.