



Nomex® (Synthetic Aromatic Polyamide Polymer)

General Material Properties

Properties		10 mil	12 mil	15 mil	Test Method
Nominal Thickness (mm)		0.25	0.30	0.38	
Typical Thickness ¹	ml	10.2	12.2	15.2	ASTM D-374
	mm	0.26	0.31	0.39	
Basis Weight (g/m ²)		249	309	397	ASTM D-646
Density (g/cc)		0.96	1.00	1.03	
Tensile Strength (N/cm)	MD	285	378	459	ASTM D-828
	XD	152	196	252	
Elongation (%)	MD	19	22	19	ASTM D-828
	XD	15	17	14	
Elmendorf Tear (N)	MD	.016"	grams		550 700
	XD	.016"	grams		
Initial Tear ² Strength (N)	MD	71	93	116	ASTM D-1004
	XD	42	55	74	
Shrinkage at 300°C (%)	MD	0.4	0.4	0.3	
	XD	0.1	0.2	0.2	

MD = machine direction of paper XD = cross direction of paper

¹ Method D; 17 N/cm²

² Data presented for Initial Tear Strength is listed in the direction of the sample per ASTM D-1004. The tear is 90 degrees to sample direction - hence for papers with a higher reported MD ITR, the paper will be tougher to tear in the cross direction.

*The information on this page is intended as general guidance only and is only accurate at the time of posting (10-18-12). Specific material properties vary by manufacturer. Please contact a Dielectric application engineer for help in choosing the optimal material for your application and budget.