



Fish Paper (Vulcanized Fibre)

General Material Properties

Properties	Thickness (inches) units		Commercial	electrical
Density	.062"	grams/cc	1.20	1.20
Specific Volume	.062"	cu. in./lb	23.0	23.0

Mechanical

Tensile Strength	MD	.062"	psi	16,000	18,000
	CD	.062"	psi	9,000	10,000
Modulus of Elasticity in Tension	MD	.062"	psi x 105	12.0	12.0
	CD	.062"	psi x 105	8.0	8.0
Flexural Strength	MD	.062"	psi	15,000	15,000
	CD	.062"	psi	13,000	13,000
Compressive Strength		.062"	psi	35,000	35,000
Impact Strength, Izod Edgewise	MD	.062"	ft-lbs/in. notch	2.0	2.5
	CD	.062"	ft-lbs/in. notch	1.8	2.0
Hardness, Rockwell R Scale		.062"	Divisions	80	70
Bond Strength, ASTM D-952		.062"	psi	900	900
Bursting Strength, Mullen		.016"	psi	-	325
Tear Strength, Elmendorf	MD	.016"	grams	-	550
	CD	.016"	grams	-	700

Electrical

Dielectric Strength, Short Time		.016"	volts/mil	230	300
		.062"	volts/mil	200	215
		.125"	volts/mil	195	200
Arc Resistance, ASTM D-495		.062"	seconds		



Dielectric

Physical

Thermal Conductivity, 149° F		Btu/hr/ft ² /°F/ft.	0.168	0.168
Specific Heat		Btu/lb/°F	0.403	0.403
Heat Resistance, Continuous		°F	230 - 240	230 - 240
Thermal Expansion x 10 ⁻⁵	MD	in/in/°F	1.1	1.1
	CD	in/in/°F	1.7	1.7
Dimensional Change per % Change in Moisture Content	Thick.	%	1.0	1.0
	MD	%	0.1	0.1
	CD	%	0.25	0.25
		%	66.0	63.0
Water Absorption, 24 hours	.062"	%	66.0	63.0
Coefficient of Friction, Fibre on Fibre			0.16	0.16
Coefficient of Friction, Fibre Smooth Cast Iron			0.21	0.21
Flammability, ASTM D-635	062"	in/mm	0.5	0.5

The information on this page is intended as general guidance only and is only accurate at the time of posting (9-10-12). Specific material properties vary by manufacturer. Please contact a Dielectric application engineer for help in choosing the optimal material for your application and budget.