Vulcanized Fibre – Technical Data

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 10^5	12.0	12.0
	CD	.062"	psi x 10^5	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	80	125
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
Water Absorption, 24 hours		.062"	%	66.0	63.0
Coefficient of Friction, Fibre on Fibre				0.16	0.16
Coefficient of Friction, Fibre on Smooth Cast Iron				0.21	0.21
Flammability, ASTM D-635		.062"	in/mm	0.5	0.5

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