

**SOME REPRESENTATIVE PROPERTIES  
OF VULCANIZED FIBRE**

**Minimum tensile strength (lb/sq in)**

Crosswise

Thickness – up to 1/8" incl. ....	6,000
Thickness – 1/8" to 1/2" incl. ....	5,500
Thickness – over 1/2" ....	5,000

Lengthwise

Thickness – up to 1/8" incl. ....	8,000
Thickness – 1/8" to 1/2" incl. ....	7,500
Thickness – over 1/2" ....	7,000

**Minimum flexural strength (lb/sq in)**

Crosswise

Thickness – 1/2" ....	11,000
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Lengthwise

Thickness – over 1/2" ....	13,000
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<b>Hardness, Rockwell R</b> .....	R-50
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**Minimum dielectric strength (V/mil)**

Thickness – .004" to .005" incl. ....	200
Thickness – .005" to .015" incl. ....	300
Thickness – .015" to .040" incl. ....	250

**Maximum water absorption**

Change in wt. % 2 h

Thickness – 1/32" to 1/8" ....	55
Thickness – 1/8" to 3/8" ....	25
Thickness – 3/8" to 1" ....	15
Thickness – over 1" ....	8

Change in wt. % 24 h

Thickness – 1/32" to 1/8" ....	65
Thickness – 1/8" to 3/8" ....	60
Thickness – 3/8" to 1" ....	35
Thickness – over 1" ....	20

**Minimum density\* of electrical insulation**

Specific gravity

Thickness – under .010" ....	0.90
Thickness – .010" to 3/32" incl. ....	1.15
Thickness – 3/32" to 5/8" incl. ....	1.20
Thickness – 5/8" to 1" incl. ....	1.10
Thickness – 1" to 1 1/4" incl. ....	1.05
Thickness – over 1 1/4" ....	1.01

\*Specific gravity of water at 4% C equals 1,000.

**SOME REPRESENTATIVE PROPERTIES  
OF VULCANIZED FIBRE**

**Minimum tensile strength (MPa)**

Crosswise

Thickness – up to 3.1 mm incl. ....	41.37
Thickness – 3.1 up to 6.2 mm incl. ....	37.92
Thickness – over 6.2 mm ....	34.47

Lengthwise

Thickness – up to 3.1 mm incl. ....	55.16
Thickness – 3.1 up to 6.2 mm incl. ....	51.71
Thickness – over 6.2 mm ....	48.26

**Minimum flexural strength (lb/sq in)**

Crosswise

Thickness – 6.2 mm ....	75.84
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Lengthwise

Thickness – over 6.2 mm ....	89.63
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<b>Hardness, Rockwell R</b> .....	R-50
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**Minimum dielectric strength (kV/mm)**

Thickness – 1 mm to 1.3 mm incl. ....	7.87
Thickness – 1.3 mm to 3.8 mm incl. ....	11.81
Thickness – 3.8 mm to 10 mm incl. ....	9.84

**Maximum water absorption**

Change in wt. % 2 h

Thickness – 1.5 mm to 3.1 mm ....	55
Thickness – 3.1 mm to 10 mm. ....	25
Thickness – 10 mm to 25 mm ....	15
Thickness – over 25 mm ....	8

Change in wt. % 24 h

Thickness – 1.5 mm to 3.1 mm ....	65
Thickness – 3.1 mm to 10 mm. ....	60
Thickness – 10 mm to 25 mm ....	35
Thickness – over 25 mm ....	20

**Minimum density\* of electrical insulation**

Specific gravity

Thickness – under 0.25 mm ....	0.90
Thickness – 0.25 mm to 2.8 mm incl. ....	1.15
Thickness – 2.8 mm to 15.8 mm incl. ....	1.20
Thickness – 15.8 mm to 25.4 mm incl. ....	1.10
Thickness – 25.4 mm to 31.7 mm incl. ....	1.05
Thickness – over 31.7 mm ....	1.01

\*Specific gravity of water at 4% C equals 1,000.