

TUFNOL

VULCANISED FIBRE SHEET

Red fibre and Black fibre.

TUFNOL Vulcanised Fibre

TUFNOL Vulcanised Fibre sheet is a strong, lightweight cellulose fibre material, with physical properties which make it ideal for many applications in electrical and electro-mechanical equipment.

It is resistant to mineral oils, petrol, greases and many solvents, is not readily degraded by exposure to sunlight and it does not readily carbonise when subjected to surface electrical discharges.

TUFNOL Vulcanised Fibre sheet offers the following properties:

- Arc resistance
- Arc quenching
- High dielectric strength
- Low thermal conductivity
- Light weight
- High flexural strength
- Excellent tear resistance

Machining and Fabrication

TUFNOL Vulcanised Fibre has the ability to be folded, formed or bent and machined using conventional machining methods.

It can be bonded to other materials such as plywood, hardboard, metal or aluminium sheeting for a variety of applications, such as EMI shielding, sound insulation and fabrication of luggage cases, etc.

Applications

The versatility of Vulcanised Fibre sheet makes it ideal for such applications as:

- Abrasive disc backing
- Arc chutes
- Slot cell insulators
- Insulating washers and shields
- Electrical standoffs
- Pump and pipe gaskets
- Thermal standoffs
- Motor end laminations

TUFNOL Vulcanised Fibre Sheet

STANDARD SIZES:

COLOURS:

SHEETS:

Sheet size:
2100 mm x 1100 mm

Standard colour is red.
Black can be supplied, subject to
special enquiry.

Thicknesses:
0.5 mm to 2.5 mm
Laminated sheets 2.5 mm to 25 mm

PHYSICAL PROPERTIES OF VULCANISED FIBRE SHEET

Property	Standard	Typical value	Units
Tensile strength longitudinal transverse	DIN 53455	700 - 800 420 - 500	kg/cm ² kg/cm ²
Flexural strength longitudinal transverse	DIN 53452	1800 1200	kg/cm ² kg/cm ²
Impact strength longitudinal transverse	DIN 53453	30 - 40 20 - 30	kg/cm ² kg/cm ²
Density	DIN 53479	1.20	g/cm ³
Dielectric strength	UNE 21-316-74 CEI 243	> 6	kV/mm
Insulation resistance	DIN 53482	10 ⁸	ohms
Loss Factor at 50 Hz	DIN 53483	0.18	-
Ash content	-	19 - 28	%
Water content	-	< 12	%
Water absorption	DIN 53475	1.84	g/mm

The information in this leaflet is believed to be correct, but completeness and accuracy are not guaranteed. The user shall be fully responsible for determining the suitability of products for the intended use. TUFNOL is a Registered Trade Mark.

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A full machining service is available for this and many other engineering plastics and composites.

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