



Tufnol 1P/13

SRBP - Synthetic Resin Bonded Paper

Paper/Phenolic resin laminate

Colour: Natural (brown)

Density: 1.36/cm³

Material Data Sheet

Mechanical Properties	Value	Unit
Cross breaking strength	175	MPa
Charpy impact strength (notched)	3.9	kJ/m ²
Tensile strength	164	MPa
Youngs modulus	10.4	GPa
Shear strength (flatwise)	100	MPa

Thermal Properties	Value	Unit
Maximum working temperature – continuous	90	°C
Maximum working temperature – intermittent	120	°C
Thermal classification	E	

Electrical properties	Value	Unit
Insulation resistance after immersion in water	5 x 10 ⁸	Ω (ohms)
Electric strength (edgewise in oil @ 90°C)	25	kV
Electric strength (flatwise in oil @ 90°C) 1.6mm thk.	10	MV/m
Electric strength (flatwise in oil @ 90°C) 3mm thk.	6.2	MV/m
Electric strength (flatwise in oil @ 90°C) 6mm thk.	4.0	MV/m
Loss tangent at 1 MHz	0.04	-
Permittivity at 1 MHz	5.4	-

Other Properties	Value	Unit
Water absorption 1.6mm thk.	65	Mg
Water absorption 3mm thk.	80	Mg
Water absorption 6mm thk.	100	Mg
Water absorption 12mm thk.	150	Mg

Specifications

BS EN 60893-3-4 Type PF CP 201



Direct Plastics Ltd. Rother Valley Way, Holbrook, Sheffield, S20 3RW

The following information corresponds with our current knowledge and indicates our products and possible applications. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. Existing commercial patents must be observed. A definitive quality guarantee is given in our general conditions of sales. Unless otherwise stated, these values represent averages taken from injection moulding samples. We reserve the right of technical alterations.