

TUFNOL Grade 2F/14

Cotton fabric laminate

Medium weave cotton/phenolic resin laminated plastic

(SRBF - Synthetic resin Bonded Fabric)

For electromechanical applications.

TUFNOL Grade 2F/14 is a cotton fabric laminate with enhanced electrical properties, specially developed to meet the requirements of the relevant British Standard specification.

What is Grade 2F/14 used for?

It is used for electro-mechanical applications where the benefits of mechanical toughness and wear resistance are combined with a need for good insulation resistance. Typical uses include slot wedges, stator packings, coil formers and operating arms.

TYPES AVAILABLE	Sheets	Rods	Tubes	Other sections
Natural colour	Yes	No	No	No

*Minimum order quantities may apply.





SPECIFICATIONS for TUFNOL Grade 2F/14

BRITISH STANDARDS Current Standards Recent Standards

(now obsolete)

Sheet BS EN 60893-3-4 Type PF CC 202 BS 2572 Types F4 & F5





PHYSICAL PROPERTIES

TUFNOL Grade 2F/14 Sheet

PROPERTY	TYPICAL RESULT	UNITS			
Cross breaking strength	115	MPa			
Impact strength, notched, Charpy	7.0	kJ/m2			
Compressive strength, flatwise	290	MPa			
Compressive strength, edgewise	215	MPa			
Resistance to flatwise compression	1.4	%			
Shear strength, flatwise	80	MPa			
Water Absorption					
- 1.6mm thk.	50	mg			
- 3mm thk.	60	mg			
- 6mm thk.	80	mg			
- 12mm thk.	90	mg			
Electric strength, flatwise in oil at 90°C					
- 1.6mm thk.	9.0	MV/m			
- 3mm thk.	7.5	MV/m			
- 6mm thk.	6.0	MV/m			
Electric strength, edgewise in oil at 90°C	35	kV			
Insulation resistance after immersion i water	n5x1010	ohms			



Loss tangent at 1 MHz	0.047	-
Permittivity at 1 MHz	4.8	-
Relative density	1.33	-
Maximum working temperature**		
- continuous	120	°C
- intermittent	130	°C
Thermal classification	Class E	_

Test methods as BS EN 60893-2, where applicable.

^{**}Users of highly stressed components at temperatures approaching the maximum are recommended to seek further advice from TUFNOL Ltd.