

TUFNOL 1P/13

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.

Properties	Unit	Typical Result
Cross breaking strength	MPa	175
Impact strength, notched, Charpy	kJ/m ²	3.9
Shear strength, flatwise	MPa	100
Tensile strength	MPa	164
Youngs modulus	GPa	10.4
Water Absorption		
1.6mm thick	mg	65
3mm thick	mg	80
6mm thick	mg	100
12mm thick	mg	150
Electric strength, flatwise in oil at 90°C		
1.6mm thick	MV/m	10
3mm thick	MV/m	6.2
6mm thick	MV/m	4.0
Electric strength, edgewise in oil at 90°C	kV	25
Insulation resistance after immersion in water	Ω	5x10 ⁸
Loss tangent at 1 MHz	-	0.04
Permittivity at 1 MHz	-	5.4
Relative density	-	1.36
Maximum working temperature***		
Continuous	°C	90
intermittent	°C	120
Thermal classification	-	Class E

*** Users of highly stressed components at temperatures approaching the maximum are recommended to seek further advice.