TUFNOL WHALE SHEET

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	130
Impact strength, notched, Charpy	kJ/m²	11.5
Compressive strength, flatwise	MPa	310
Compressive strength, edgewise	MPa	200
Shear strength, flatwise	MPa	90
Tensile strength	MPa	68
Young's modulus	GPa	6.3
Water Absorption		
1.6mm thick	mg	90
3mm thick	mg	105
6mm thick	mg	130
12mm thick	mg	160
Electric strength, flatwise in oil at 90ºC		
1.6mm thick	MV/m	4.5
3mm thick	MV/m	2.6
6mm thick	MV/m	2.0
Electric strength, edgewise in oil at 90ºC	kV	12
Insulation resistance after immersion in water	Ω	1x108
Relative density	-	1.36
Maximum working temperature***		
Continuous	℃	120
Intermittent	℃	130
Thermal classification	-	Class E
Thermal conductivity through laminae	W/(mK)	0.32
Thermal expansion in plane of laminae	X 10-5/K	2.2
Specific heat	kJ/(kgK)	1.5

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