

Technical Properties for Whale Tufnol

(Sheet)	Norm	Unit	Value
<u>Physical Properties</u>			
Relative density	BSEN60893	-	1.36
Max working temp			
Constant	“	degrees C	120
Intermittent	“	degrees C	130
Water absorption			
1.6mm thk	“	mg	90
3mm thk	“	mg	105
6mm thk	“	mg	130
12mm thk	“	mg	160
<u>Mechanical Properties</u>			
Cross breaking strength	“	MPa	130
Impact strength	“	kJ/m ²	11.5
Compressive strength flat	“	MPa	310
Compressive strength edge	“	MPa	200
Shear strength flat	“	MPa	90
Tensile strength	“	MPa	68
Youngs modulus	“	GPa	6.3
<u>Thermal Properties</u>			
Thermal classification	“	-	class E
Thermal conductivity	“	w/(Mk)	0.32
Thermal expansion	“	x 10 ⁻⁵ /k	2.2
Specific heat	“	kJ(kgK)	1.5
<u>Electrical Properties</u>			
Strength flat in oil			
1.6mm thk	“	MV/m	4.5
3mm thk	“	MV/m	2.6
6mm thk	“	MV/m	2.0
Strength edge in oil	“	Kv	12
Resistance after water	“	ohms	1 x 10 ⁸
(Rod)			
<u>Physical Properties</u>			
Water absorption	“	mg/cm ²	3.3
Relative density	“	-	1.35
<u>Mechanical Properties</u>			
Flexural strength	“	MPa	130
<u>Electrical Properties</u>			
Resistance after water	“	ohms	1x10 ⁷
In oil at 90 degrees	“	kv	4