

## Tecnical Properties Kite Tufnol

<b>(KITE)</b>	<b>Norm</b>	<b>Unit</b>	<b>Value</b>
<b><u>Physical Properties</u></b>			
Relative density	<b>BSEN60893</b>	-	<b>1.36</b>
Max working temp			
Constant	“	degrees C	<b>90</b>
Intermittent	“	degrees C	<b>120</b>
Water absorption			
1.6mm thk	“	mg	<b>39</b>
3mm thk	“	mg	<b>47</b>
6mm thk	“	mg	<b>56</b>
12mm thk	“	mg	<b>70</b>
<b><u>Mechanical Properties</u></b>			
Cross breaking strength	“	MPa	<b>175</b>
Impact strength	“	kJ/m <sup>2</sup>	<b>2.7</b>
Compressive strength flat	“	MPa	<b>350</b>
Compressive strength edge	“	MPa	<b>200</b>
Shear strength flat	“	MPa	<b>90</b>
Tensile strength	“	MPa	<b>68</b>
Youngs modulus	“	GPa	<b>6.3</b>
<b><u>Thermal Properties</u></b>			
Thermal classification	“	-	<b>class</b>
E			
Thermal conductivity	“	w/(Mk)	<b>0.26</b>
Thermal expansion	“	x 10 <sup>-5</sup> /k	<b>1.8</b>
Specific heat	“	kJ/(kgK)	<b>1.5</b>
<b><u>Electrical Properties</u></b>			
Strength flat in oil			
1.6mm thk	“	MV/m	<b>14.5</b>
3mm thk	“	MV/m	<b>13</b>
6mm thk	“	MV/m	<b>8.8</b>
Strength edge in oil	“	Kv	<b>55</b>
Resistance after water	“	ohms	<b>1x1010</b>

