


**MATERIAL SPECIFICATION FOR T100MP (MARINE)**

REQUIREMENT	TYPICAL VALUES		
	Imperial	Metric	
<b>Rockwell Hardness</b>	80 - 90 Rockwell M.	80 - 90 Rockwell M.	
<b>Density</b>	0.045 – 0.49 lbs/in <sup>3</sup>	1.25 – 1.40 (Gms/cc)	
<b>Tensile Strength</b>			
Lengthwise	9427 PSI	65 N/mm <sup>2</sup>	
Crosswise	8700 PSI	60 N/mm <sup>2</sup>	
<b>Flexural Strength</b>			
Lengthwise	20.000 PSI	138 N/mm <sup>2</sup>	
Crosswise	15.500 PSI	107 N/mm <sup>2</sup>	
<b>Shear Strength</b>			
	19.500 PSI	134 N/mm <sup>2</sup>	
<b>Compressive Strength</b>			
Flatwise	50.000 PSI	345 N/mm <sup>2</sup>	
Edgewise	19600 PSI	135 N/mm <sup>2</sup>	
<b>Water Absorption, Volumetric</b>			
	Less than 0.1%	Less than 0.1%	
<b>Coefficient of Thermal Expansion 20 - 100°C (Per °C x 10<sup>-5</sup>)</b>			
	Parallel to Laminations	6 - 7	
	Right Angle to Laminations	12 - 13	
<b>Max Constant Operating Temp</b>			
	212°F	100°C	
<b>Min Constant Operating Temp</b>			
	-94 °F	-70°C	
<b>Tensile Modulus</b>			
	0.47 (lbs/in <sup>2</sup> x 10 <sup>6</sup> )	0.32 (N/mm <sup>2</sup> x 10 <sup>4</sup> )	
<b>Lubricants</b>			
	Moly + PTFE	Moly + PTFE	
<b>Colour</b>			
	Light Grey	Light Grey	
<b>Coefficient of Friction, Tufcot against Stainless Steel</b>			
Bearing Pressure 15.5 N/mm <sup>2</sup> Surface Speed 2.20 M/Sec	Dry	0.10 – 0.12	0.10 – 0.12
	Water	0.01	0.01
	Oil	0.02	0.02

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