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MATERIAL SPECIFICATION FOR T100M

REQUIREMENT	TYPICAL VALUES		
	Imperial		Metric
Rockwell Hardness	100 Rockwell M.		100 Rockwell M.
Density	0.045 – 0.048 lbs/in^3		1.25 – 1.35 (Gms/cc)
Tensile Strength			
Lengthwise	9,427 PSI		65 N/mm²
Crosswise	8,700 PSI		60 N/mm²
Flexural Strength			
Lengthwise	20.000 PSI		138 N/mm²
Crosswise	15.500 PSI		107 N/mm²
Shear Strength	19.500 PSI		134 N/mm²
Compressive Strength			
Flatwise	50.000 PSI		345 N/mm²
Edgewise	20.000 PSI		138 N/mm²
Water Absorption, Volumetric	Less than 0.1%		Less than 0.1%
Coefficient of Thermal Expansion 20 - 100℃ (Per ℃ x 10^{-5})	Parallel to Laminations		6 - 7
	Right Angle to Laminations		12 - 13
Max Constant Operating Temp	212℉		100℃
Min Constant Operating Temp	-94 ℉		-70℃
Tensile Modulus	0.47 (lbs/in² x 10^6)		0.32 (N/mm² x 10^4)
Lubricants	Molybdenum		Molybdenum
Colour	Light Grey		Light Grey
Coefficient of Friction, Tufcot against Stainless Steel	*Dry*	0.15 – 0.18	0.15 – 0.18
Bearing Pressure 15.5 N/mm²	*Water*	0.01	0.01
Surface Speed 2.2 M/Sec (water & oil)	*Oil*	0.02	0.02

The information in this data sheet is based on many decades of experience in the manufacturing and application of our products. However, unknown parameters and conditions may restrict general statements during usage. It is vital that customers satisfy themselves as to the suitability of individual products through adequate testing. For these reasons and due to the wide range of applications of our products, Tufcot can accept no liability as to the suitability or correctness of our recommendations in individual cases. For specific operating conditions please discuss your requirements with Tufcot at the quotation stage.