

Orkot Composites

Orkot[®] TLM Marine

Orkot[®] TLM Marine is a non asbestos laminated material manufactured by impregnating special fabrics with thermosetting resins and incorporates solid lubricants. Orkot[®] TLM Marine possesses exceptional wear resistance and dimensional stability in water with virtually no swell .

Mechanical Properties

	IMPERIAL	METRIC
TENSILE STRENGTH	>8500 lbf/in ²	>55 N/mm ²
TENSILE MODULUS	46.5 x 10 ⁴ lbf/in ²	0.32 x 10 ⁴ N/mm ²
COMPRESSIVE STRENGTH		
Normal to Laminate	>43600 lbf/in ²	>300 N/mm ²
Parallel to Laminate	>13000 lbf/in ²	>90 N/mm ²
FLEXURAL STRENGTH	>10000 lbf/in ²	>65 N/mm ²
FLEXURAL MODULUS	27.6 x 10 ⁴ lbf/in ²	0.19 x 10 ⁴ N/mm ²
SHEAR STRENGTH	11600 lbf/in ²	80 N/mm ²
HARDNESS ROCKWELL M	100	100
IMPACT STRENGTH	-	> 120 kJ/m ²
DENSITY	0.047 lbf/in ³	1.3 g/cm ³
SWELL IN WATER	< 0.1%	< 0.1%
STATIC COEFFICIENT OF FRICTION DRY AT 15 N/mm ²		0.13 – 0.15

Thermal Properties

LINEAR EXPANSION COEFFICIENTS	86-212°F (per°F x 10 ⁻⁵)	20-100°C (per°C x 10 ⁻⁵)
Normal to Laminate	5.0 – 5.5	9 – 10
Parallel to Laminate	2.7 – 3.3	5 – 6

THE ABOVE VALUES ARE TYPICAL

For further information visit : www.orkot.us

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The information in this document is based on many years of experience in the manufacture and application of Orkot Composites products. However, unknown parameters and conditions may restrict general use. It is vital that customers satisfy themselves as to the suitability of individual products through adequate testing. For this reason, and due to the wide range of applications of our products, Orkot Composites can accept no liability as to the suitability or correctness of our general recommendations in individual cases. For specific operating conditions please consult your Orkot Composites technical