

Specification Sheet

Description: Polyester Resin Fabric
Material: T100

Property	Imperial	Metric
Rockwell Hardness	100 Rockwell M.	100 Rockwell M.
Density	1.25 - 1.48 (Gms/cc)	1.25 - 1.48 (Gms/cc)
Tensile Strength		
Lengthwise	13.500 PSI	90 N/mm ²
Crosswise	11.000 PSI	76 N/mm ²
Flexural Strength		
Lengthwise	20.000 PSI	138 N/mm ²
	15.500 PSI	107 N/mm ²
Shear Strength	19.500 PSI	134 N/mm ²
Compressive Strength		
Flatwise	50.000 PSI	345 N/mm ²
Edgewise	20.000 PSI	138 N/mm ²
Water Absorption, 1/8 in.th.	Less than 0.1%	<0.1 (1% wall thickness)
Coefficient of Thermal Expansion 20-100°C(Per °C x 10 ⁻⁵)	Parallel to Laminations Right angle to Lamination:	6-7 12-13
Maximum Operating Temp.	392°F	200°C
Flexural Modulus	0.47(Lbs/Sq In x 10 ⁶)	0.32 (M/m x 10 ⁴)
Lubricant	P.T.F.E.	P.T.F.E.
Coefficient of friction, Tufcot vs. stainless steel	Dry	.15 - .18
Bearing pressure 15.5N/mm ² Surface Speed 2.20M/Sec		

Description:

TUFCOT T100 is a high performance composite material NEWLY DESIGNED for use as wear strips and guide bushings. The material consists of a thermosetting polyester resin reinforced with a synthetic fabric. The reinforcing fibres within TUFCOT T100 allow for lubrications pockets to be formed, resulting in a low friction coefficient. The coefficient can be as low as 0.02 when lubricated for loads up to 2000 psi. A compressive strength of up to 50,000 psi makes this material the ideal solution for bearing applications where high shock or edge-loading and misalignment are evident. TUFCOT 2000 will also maintain excellent dimensional stability even in contact with water.