

# MATERIAL GRADE: TA 400



## DESCRIPTION

TA 400 is a polyester resin composite with a hardness of 107 Rockwell M and comprised of a high temperature resin and fabric.

## SPECIFICATIONS

Property	Metric	U.S. Units
Specific Gravity	1.25 g/cm <sup>3</sup>	
Swell In Water <i>(Wall Thickness)</i>	<0.1 %	<0.1 %
Rockwell Hardness	M Scale 107	M Scale 107
Tensile Strength*	58-60 MPa	8,410 – 8,700 psi
Compressive Strength* – Normal to Laminate	330-358 MPa	47,900 – 52,000 psi
Compressive Strength* – Parallel to Laminate	103-110 MPa	15,950 – 14,950 psi
Modulus of Elasticity	3,600 MPa	522,000 psi [ 0.52 × 10 <sup>6</sup> psi]
Coefficient of Friction	0.12 – 0.17	0.12 – 0.17
Max Operating Temperature	176 °C	349 °F
Color	Yellow	Yellow

\*=Compressive & tensile strength test results are loads at failure, and may vary due to resin selection and solid lubricants incorporated within the resin.

