

TF3027 is a phenolic treated, brass wire inserted cloth laminated under heat and pressure to a dense, strong composite. TF3027 provides good fade and wear resistance and may be machined using standard, industry accepted practices. Its high strength makes it suitable for gear and lug driven applications. Available in thicknesses from 1/8" to 3".

Friction Properties

Static Friction Coefficient (15bar, from box): $0.42 \pm 0.05 \mu$
 Static Friction Coefficient (15bar, 100°C): $0.36 \pm 0.05 \mu$
 Dynamic Friction Coefficient: $0.45 \pm 0.05 \mu$
 Wear Rate [mm^3/kWh]: $.0042 \pm 10$ (at 150°C)

Physical Properties

Specific Gravity (ASTM D792): $1.165 \pm 0.05 \text{ gr/cm}^3$
 Compressive Strength (ISO 844:2014): $30,000 \pm 10 \text{ N/mm}^2$
 Shear Strength, 13,600 psi.
 Burst Resistant (200 x 137 x 3.5) 200°C: $6500 \pm 100 \text{ RPM}$

Thermal Properties

Maximum Intermittent Operating Temp: 600/260 °F/°C
 Maximum Continuous Operating Temp: 500/315 °F/°C

Material Type: Phenolic Metallic Friction Material

Appearance/Formats:

Rings, Gears, Clutches,
 Blocks, Bonded Parts,
 Machined Parts, Sheets

Applications

Brake or Clutch Pads, Industrial Brake Linings,
 Gear Tooth Facings,
 Robotics, Electric Motors, PTO's, Small Winches.

Compliance: Reach(EC)1907/2023 & RoHS2015/863/EU

Additional

Recommended Mating Surfaces: Pearlitic Cast Iron with Hardness HB150-200.
 Recommended Adhesive: Thermosetting.
 Oil Resistant: Yes.

The above data is taken from specific test parameters, therefore results can vary in differing application conditions

