

TF3080 is a molded friction material with a medium high friction coefficient, reinforced with metal components. This material is recommended for machining, having excellent friction characteristics. The material consists phenolic resins with an NBR bonding system, short fibers, friction modifiers, metal particles and fillers. TF3080 is fully cured and suitable for bonding and riveting.

Friction Properties

Dynamic Friction Coefficient: $0.50 \pm 0.05 \mu$
Wear Rate [mm^3/kWh]: $.60 \pm 10$ (at 150°C)
T Fading: $>340^\circ\text{C}/644^\circ\text{F}$

Material Type: Phenolic Metallic Friction Material

Appearance/Formats:

Rings, Blocks, Bonded Parts,
Machined Parts, Sheets

Physical Properties

Specific Gravity (ASTM D792): $1.80 \pm 0.05 \text{ gr/cm}^3$
Compressive Strength (ISO 844:2014): $100 \pm 10 \text{ N/mm}^2$
Burst Resistant (200 x 137 x 3.5) 200°C : $6500 \pm 100 \text{ RPM}$
Poisson Coefficient (ASTM D638): 0.18 ± 0.03
Young's Modulus (ASTM D638): $2500 \pm 100 \text{ N/mm}^2$

Applications

Brake Parts, Industrial Brake Linings.
Industrial Brake Calipers.
Torque Limiters.

Thermal Properties

Maximum Intermittent Operating Temp: $482/250^\circ\text{F}/^\circ\text{C}$
Maximum Continuous Operating Temp: $600/315^\circ\text{F}/^\circ\text{C}$

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

