

ID Material: 200
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TF3027

The **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.

Material Data

Friction Properties

Coefficient of Friction -		SAE J661
Normal	0.42	
Hot	0.36	
Typical @ 400°F	0.45	
Wear Rate, in ³ /hp-hr	0.0042	
Friction Code	FF - GF	SAE J866
Suggested Operating Limits - **		
Maximum Pressure, psi	250	
Maximum Surface Speed, ft/min	5000	
Temperature, °F.		
Maximum, Intermittent	600°	
Maximum, Sustained	500°	

** Suggested operating limits are consistent with uniform performance and acceptable wear rate

Physical Properties

Specific Gravity, typical	1.6 – 1.7	SAE – J380
Apparent Density, pounds / in ²	0.058 – 0.061	
Maximum Available Size -		
Width	40.00"	
Thickness, Maximum / Minimum	.125" – 3.000"	
Length	40.00"	

Material Type : Rigid Brake and Clutch Composite

Appearance / Formats



Applications

Brake or Clutch Pads, Industrial Brake Linings, Geartooth Facings, Robotics/Electric Motors, PTO's, Small Winches, Agriculture applications

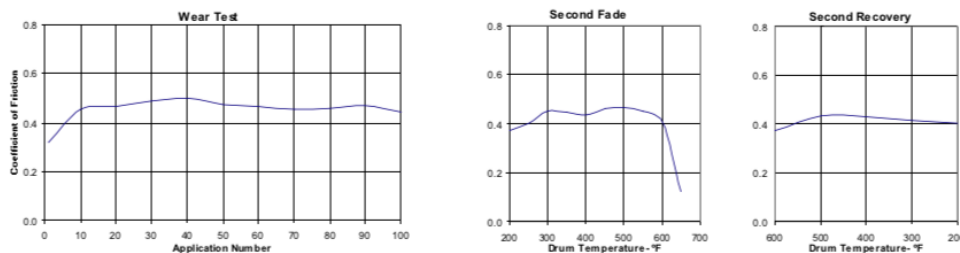
Price Level : \$ \$ \$ \$

Mechanical and Thermal Properties

Tensile Strength, psi	7200	ASTM – D638
Modulus x 10 ⁶	0.92	
Elongation, %	1.4	
Flexural Strength, psi	20,500	ASTM – D790
Modulus x 10 ⁶	0.72	
Compression Strength, psi	30,000+	ASTM – D695
Shear Strength, psi	13,600	ASTM – D732
Thermal Conductivity, BTU-in/hr/ft ² /°F		TBD

Coefficient of Friction

From SAE J661 Test Procedure



The data presented herein was obtained from industry accepted standards. **ProTec Friction Group** provides the information in good faith but make no representation as to its completeness or accuracy. The information is intended only as a guide, and independent judgement must be exercised in determining suitability of the material for a particular purpose.