



## Product Data Sheet: RF 51

### PRODUCT DESCRIPTION

**RF 51** is a rigid molded *Non-Asbestos* friction material suitable for use in *High Friction* brake/clutch applications. It is non-corrosive, non-abrasive, smooth, and kind to mating surface. It exhibits excellent fade and recovery characteristics. RF 51 can be molded into many intricate internal, external, and customer specified shapes.

### CHARACTERISTICS

- Exceptional dimensional stability
- High compressibility
- Good corrosion resistance
- Excellent wear rate
- High Tensile strength

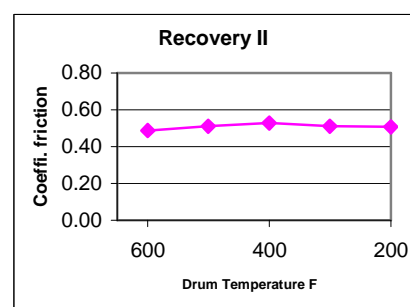
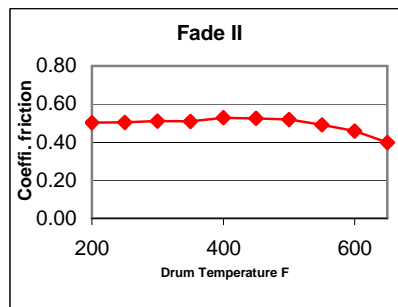
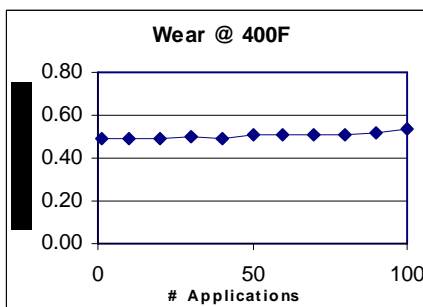
### MECHANICAL PROPERTIES

Specific Gravity (SAE J380) : 1.79  
 Gogan Hardness (SAE J379A) : 19-21  
 Tensile Strength, PSI (ASTM D638) : 5400<sub>min</sub>

### FRICTIONAL PROPERTIES

Coefficient of Friction (SAE J661):  
 Normal\* : 0.51  
 Hot\* : 0.49  
 Wear Rate (SAE J661)  
 (inch<sup>3</sup>/hp-hr) : 0.004<sub>max</sub>  
 Friction Code : GG  
 Maximum Operating Limits:  
 Rubbing Speed\*\* : 10000 fpm  
 Pressure\*\* : 2000 psi  
 Drum Temperature for  
 Constant Operation\*\* : 650°F

### SAE J661A TEST CURVES



\*Note 1. – Friction values shown are for guide purposes only since values deviate with changes in temperature, pressure and speed. Practical design should include a 25 to 50 percent safety factor.

\*\*Note 2. – Rubbing speed, drum temperature, and pressure are directly related. Changing any one value will change the others. The values shown represent typical conditions, but are not the ultimate limits of the material.