



Product Data Sheet: RF53

PRODUCT DESCRIPTION

RF 53 is a rigid molded *Non-Asbestos, Metallic* friction material suitable for use in *High Friction* brake/clutch applications in a wide variety of equipment. It has exceptional dimensional stability. It is recommended for all holding applications and especially where high out-of-box torque is required. RF 53 can be molded into wide range of shapes and sizes to satisfy virtually all industrial applications.

CHARACTERISTICS

- High Static friction
- Exceptional dimensional stability
- Excellent corrosion resistance
- High Tensile strength
- Excellent recovery

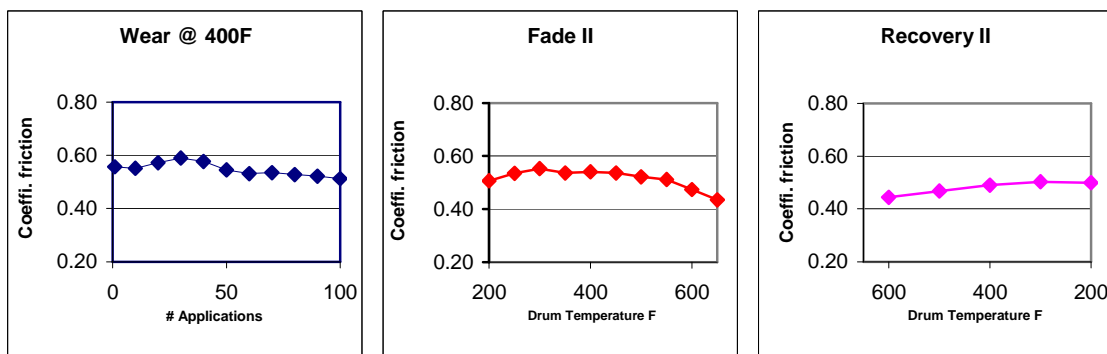
MECHANICAL PROPERTIES

| | |
|-----------------------------------|-----------------------|
| Specific Gravity (SAE J380) | :2.2- 2.40 |
| Gogan Hardness (SAE J379A) | :15-35 |
| Tensile Strength, PSI (ASTM D638) | :3500 _{min} |
| Compressive Strength | :17346 _{min} |

FRICTIONAL PROPERTIES

| | |
|--------------------------------------------|-------------------------|
| Coefficient of Friction (SAE J661): | |
| Normal* | : 0.53 |
| Hot* | : 0.50 |
| Wear Rate (SAE J661) | |
| (inch ³ /hp-hr) | : 0.0095 _{max} |
| Friction Code | |
| | : GG |
| Maximum Operating Limits: | |
| Rubbing Speed** | : 7500 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.