



## Product Data Sheet: RF 425

### PRODUCT DESCRIPTION

**RF 425** is a *Non-Asbestos, Non-Metallic, Medium friction* rigid molded material. The product has exceptional dimensional stability and can be molded into many intricate internal, external, and customer specified shapes. RF 425 is an excellent thermal and electrical insulator. It is recommended for use as insulating material or as in any medium friction application, including the most severe.

### CHARACTERISTICS

- Excellent insulator
- Uniform friction
- Non-abrasive
- Premium life characteristics
- High corrosion resistance

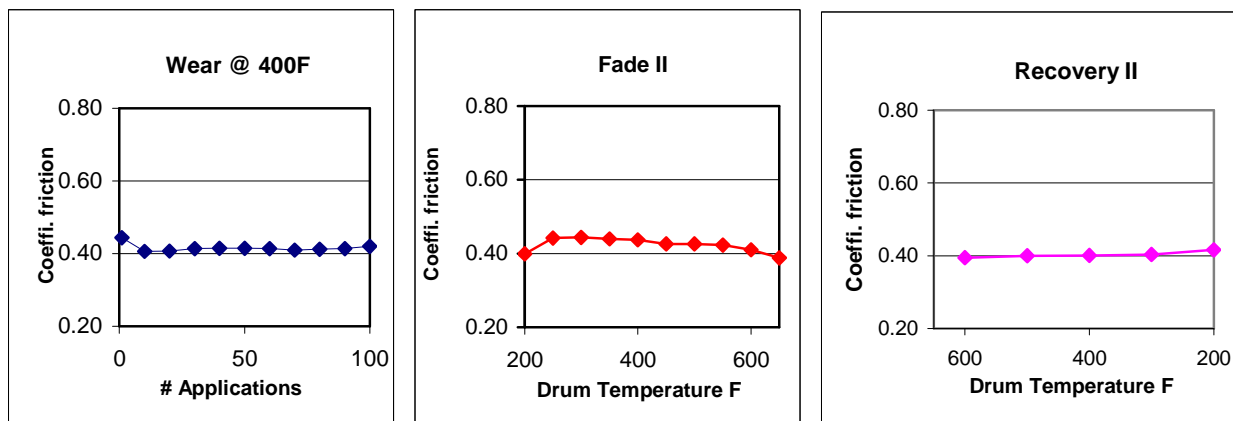
### MECHANICAL PROPERTIES

Specific Gravity (SAE J380) : 2.0-2.15  
 Gogan Hardness (SAE J379A) : 15-35  
 Tensile Strength, PSI (ASTM D638) : 2182<sub>min</sub>  
 Compressive Strength , PSI : 8909<sub>min.</sub>

### FRICTIONAL PROPERTIES

**Coefficient of Friction (SAE J661):**  
 Normal\* : 0.43  
 Hot\* : 0.41  
**Wear Rate (SAE J661)**  
 (inch<sup>3</sup>/hp-hr) : 0.005<sub>max</sub>  
**Friction Code** : FF  
**Maximum Operating Limits:**  
 Rubbing Speed\*\* : 5000 fpm  
 Pressure\*\* : 200 psi  
**Drum Temperature for**  
 Constant Operation\*\* : 550°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.