SCAN PAC MFG., INC.
Friction & Phenolic Specialists

Product Data Sheet: RF 81

GENERAL DESCRIPTION

RF 81 is a *Non-Asbestos and Metallic* friction material reinforced with continuous aramid, metal and glass fibers. RF 81 is suitable for use in High Strength and *High Friction* brake and clutch applications. RF 81 is non-corrosive and non-abrasive and it can be molded into many customer specified shapes.

FEATURES

- **Exceptional dimensional stability**
- **High tensile strength**
- **Excellent fade resistance**
- **High Impact strength**
- **Excellent wear rate.**

PHYSICAL & MECHANICALPROPERTIES

Specific Gravity (SAE J380) : 1.45

Gogan Hardness (SAE J379A) : 24-28

Tensile Strength(ASTM D638) : 13172 psi

Impact Strength : 36.5 ftlb/inch^2

FRICTIONAL PROPERTIES

Coefficient of Friction (SAE J661):

Normal* : 0.51

Hot* : 0.48

Wear Rate (SAE J661)

(inch^3/hp-hr) : 0.009$_{max}$

Friction Code : GG

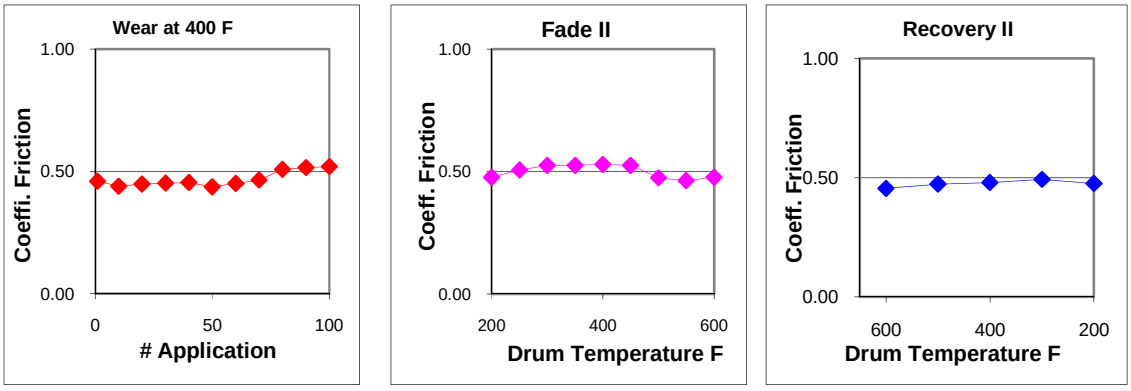
Maximum Operating Limits:

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.**