



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 & MECHANICAL PROPERTIES

Specific Gravity (SAE J380) : 1.45
 Gogan Hardness (SAE J379A) : 24-28
 Tensile Strength (ASTM D638) : 13172 psi
 Impact Strength : 36.5 ftlb/inch²

FRICITIONAL PROPERTIES

Coefficient of Friction (SAE J661):

Normal* : 0.51

Hot* : 0.48

Wear Rate (SAE J661)

(inch³/hp-hr) : 0.009

Friction Code

: GG

Maximum Operating Limits:

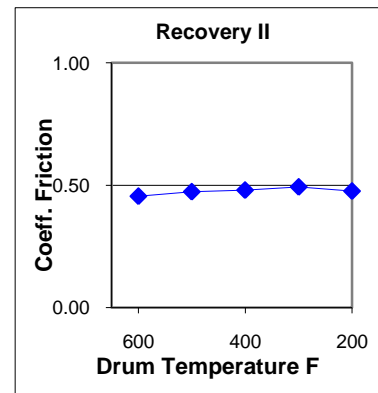
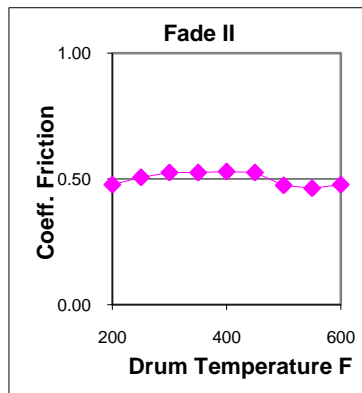
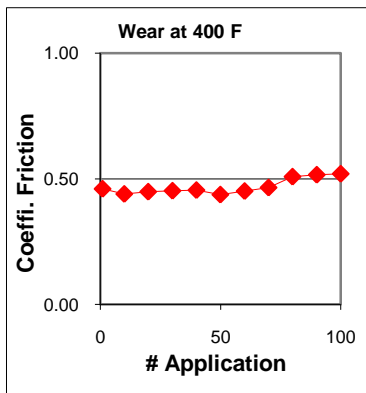
Rubbing Speed** : 7500 fpm

Pressure** : 2000 psi

Drum Temperature for

Constant Operation** : 650°F

SAE J661A TEST CURVES



The information presented in this datasheet provides general performance characteristics of the friction material compound under standard test conditions. Values shown are typical or represent average values from test samples. Friction material performance is application specific due to the geometry and conditions of the application, please use this as reference information only. No warranty can be made as to the suitability of this friction material for a specific application. For support with an application, please contact us to discuss your requirements.

* Friction values shown are for guideline purposes only. Friction values will change with temperature, pressure and speed. Practical design considerations should include a factor of safety based on the specific application.

** Maximum operating limits stated are interrelated. Changing any one value will change the maximum limit of the others.