Scan-Pac Mfg.

Product Data Sheet

Brake Lining Material: RF42

PRODUCT DESCRIPTION: **RF42** is a medium friction rigid molded product, containing synthetic fibers, friction modifiers, and high temperature resins. **RF42** is similar to RF38 except it has no metal particles.

APPLICATION: **RF42** is recommended for virtually any medium friction application where metal particles can not be used.

PHYSICAL PROPERTIES

Tolerance and Size Data	
Blocks – Thickness 1/8" to 2 _" - To 3/8"	+.000/-.020"
- Over 3/8"	+.000/-.030"
- Width - To 6"	+/-1/32"
- 6" to 8"	+1/32"/-1/16"
- Over 8"	+1/32/-1/8"
Flat Sheet Size and Thickness - 20" X 20"	Up to 1 _"
- 12 _" X 15"	Up to 2 _"
To 3/8" Thick	+.000/-.020"
Over 3/8" Thk.	+.000/-.030"
Facing – Thickness - To 3/8"	+.000/-.020"
- Over 3/8"	+.000/-.030"
OD - To 12"	+/-1/32"
- Over 12"	+/-1/16"
ID - To 12"	+1/16"/-.000
- Over 12"	+1/8"/-.000

MECHANICAL PROPERTIES

Specific Gravity (SAE J380)	2.00-2.15
Gogan Hardness (SAE J379A)	15-35
Tensile Strength, psi (ASTM D638)	2000psi min.
Modulus of Rupture (ASTM-D790)	2800psi min.

FRICTION PROPERTIES RF42

Coefficient of Friction (SAE J661)	
Normal	.43
Hot	.41
See Note 1	
Wear Rate, by weight (SAE J661)	.018 max.
Friction Code	FF
Recommended Operating Limits	
Max. Rubbing Speed	7500 fpm
See Note 2	
Max. Drum Temp.	600°F
°F for Constant Operation	
See Note 2	
Max. Pressure	150psi
See Note 2	

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.

SAE J661a Test Curves