



Scan-Pac Mfg.

Product Data Sheet

Brake Lining Material: RF52

PRODUCT DESCRIPTION: RF52 is a superior high quality, high friction rigid molded material, compounded for severe duty. This product features excellent fade resistance and long wear.

APPLICATION: RF52 provides outstanding service on off road drum and disc brakes, and as a holding brake on cranes, shovels, draglines, and winches. Remarkably easy on the drum, RF52 can be used in both dry and wet applications.

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 _"
- 30" X 30"	up to _"
- 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)	2.20-2.40
Gogan Hardness (SAE J379A)	15-35
Tensile Strength, psi (ASTM D638)	3000psi min.
Modulus of Rupture (ASTM-D790)	4500psi min.

FRICITION PROPERTIES RF52

Coefficient of Friction (SAE J661)	
Normal	.58
Hot	.55
See Note 1	
Wear Rate, by weight (SAE J661)	.019
Friction Code	GG
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

