Ferotec Friction, Inc.

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PRODUCT DATA SHEET

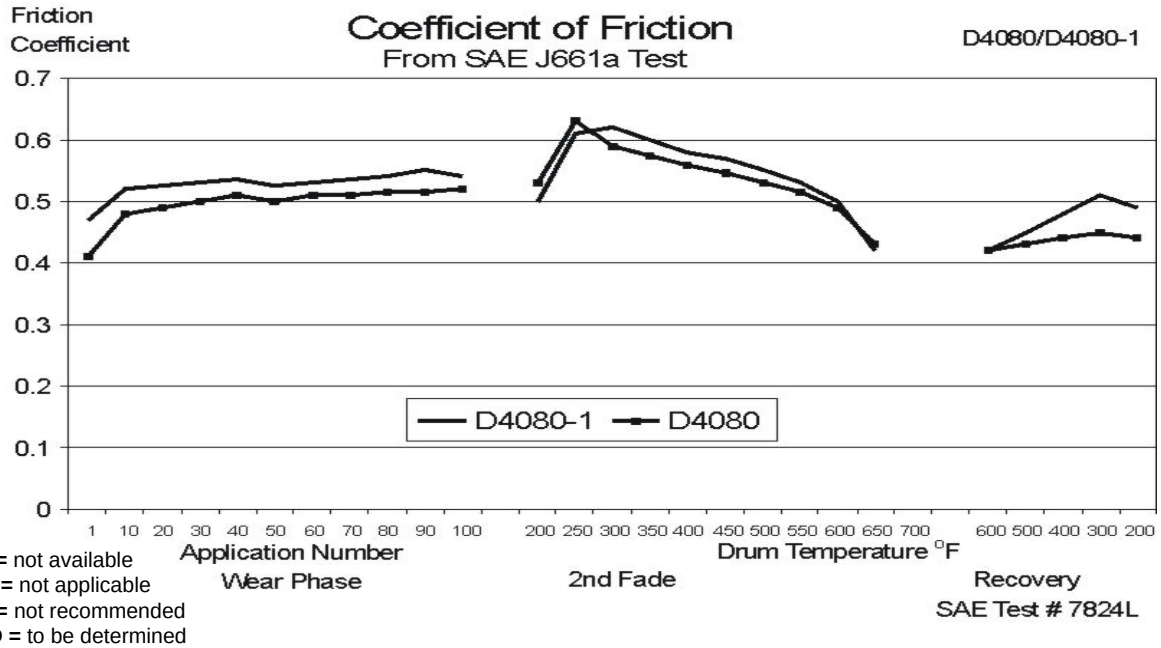
FRICTION MATERIAL COMPOSITE: **D4080**

PRODUCT DESCRIPTION: D4080 is a high coefficient, rubber base material, supplied semi-cured in rolls or flat, flexible strips. It may be cured further to rigid segments or custom shapes [**D4080-1** (full-cure)]. **D4080** and **D4080-1** exhibit excellent fade resistance to 550˚F and very good recovery after short exposure to higher temperatures.

APPLICATION: D4080 and **D4080-1** are suggested for light to medium duty service where a higher coefficient is required.

PHYSICAL PROPERTIES			
Available Sizes (1)			
Width, inches		1 to 13	
Thickness, inches		0.062 to 0.500	
Length, inches		46 Max.	
Specific Gravity	SAE J380	1.97	
Apparent Density, pounds/in^3		0.071	
Hardness, Shore D (semi-cured)	SAE J379	50 - 65	
Hardness, Shore D (fully cured)	SAE J379	70 - 85	
Water Absorption, % after 24 hours		0.30 ± 0.05	
(1) Special sizes available on request			
MECHANICAL PROPERTIES			
		Semi-Cure	Full Cure
Tensile Strength, psi	ASTM D638	950	3300
Modulus x 10^6 ,psi		N/A	1.32
Elongation, %		8.6	0.46
Flexural Strength, psi	ASTM D790	N/A	6700
Modulus x 10^6 ,psi		N/A	0.79
Compression Strength, psi	ASTM D695		13000
Shear Strength, psi	ASTM D732	2000	4100

THERMAL PROPERTIES			
Conductivity, BTU–in/hr/ft^2/^{o}F	ASTM D2214	TBD	
Specific Heat, Cal/gm/^{o}C	ASTM C351	TBD	
FRICTION PROPERTIES			
Coefficient of Friction (2)	SAE J661	Semi-Cure	Full Cure
Normal		.59	.58
Hot		.46	.50
@ 400^{o}F		.51	.55
Static @ 200^{o}F		.67	.65
@ 400^{o}F		.56	.55
Wear Rate, in^3/hp-hr		0.0082	0.0067
Friction Code	SAE J866	HG	HG
Recommended Operating Limits (3)			
Maximum Unit Pressure, psi		150	
Maximum Rubbing Speed, ft/min		3500	
Temperature, ^{o}F			
Minimum		-10	
Maximum (Intermittent)		600	
Maximum (Continuous)		550	
(2) Data derived from SAE J661a dynamometer test results.			
(3) Recommended operating limits are commensurate with a reasonable amount of wear and uniform performance.			



NA = not available
N/A = not applicable
NR = not recommended
TBD = to be determined

The information and data supplied in this data sheet are believed to be accurate and reliable, and were obtained from standard laboratory tests. Since actual conditions of use are not within the control of **Ferotec Friction**, it is suggested that **D4080** be thoroughly tested and its suitability for use be determined before final acceptance.