KAMATICSRWG
Engineered Performance

Engineering Data Sheet 174
Revised January 2010

KAron V Data

1. Characteristics:

1.1. Nominal liner thickness: .010 to .015 in.(.25 to .38 mm), Max thickness .060 in.(1.52 mm)
1.2. Operating temperature range: -100° F to +300°F (-73 to +149°C)
1.3. Coefficient of friction range: .03 to .08, depending upon pressure, and velocity.
1.4. Compatible backing substrate materials: stainless steel, carbon steel, titanium, aluminum bronze, aluminum, phenolic, fiberglass, inconel and others.
1.5. Surface speeds to 10 fpm (3.0 m/min)

2. Physical Properties:

2.1.	Specific gravity:	1.363
2.2.	Density	1.360 gm/cc
2.3.	Hardness	Rockwell M 85/90
2.4.	Approximate Compression Modulus	7 x 10^5 psi (4,828 MPa)

3. Typical Load Carrying Capabilities:

3.1.	Static Ultimate *	100,000 psi (690 MPa)
3.2.	Static Limit **	67,000 psi (462 MPa)
3.3.	Dynamic (max.)	40,000 psi (276 MPa)
3.4.	Dynamic (continuous) ***	30,000 psi (207 MPa)

Notes:
* Equivalent to 1.5 times the static limit load, local liner distress may occur.
** Maximum load which will result in a permanent set in the liner no greater than .004 (0.10mm) inches after the load is applied for 3 minutes.
*** .006 inches (0.152 mm) maximum permitted wear after 5,000 cycles of oscillation at ± 25° at 10 cpm (MIL-B-8943 requirement).
Typical liner thickness 0.012 in. (0.3 mm).

4. Applicable Specifications:

4.1. MIL-B-8943 – bearings, sleeve, plain and flanged, TFE lined (MS21240 & 21241) (Kamatics KRJ-V & KRJ-UDV).

5. Typical Applications:

5.1. Marine environment (including rudder and pintle bearings as well as hydrofoil strut pivot bearings), airframe controls, track and cam rollers and industrial applications requiring high load carrying capability and self-lubricating features.