

KAron VS

1. Characteristics:

- 1.1. Description: A non-peelable, non-fabric, machineable homogeneous mixture of PTFE fibers and a polyester resin system that enable very low friction levels.
- 1.2. Nominal liner thickness: .010 to .015 in. (.25 to .38 mm), Max .060 in. (1.52 mm)
- 1.3. Operating temperature range: -100° F to +300°F (-73 to +149°C)
- 1.4. Coefficient of friction range: .02 to .05, depending upon pressure, and velocity.
- 1.5. Compatible backing substrate materials: stainless steel, carbon steel, titanium, aluminum, nickel alloys, composites.
- 1.6. Surface speeds to 10 fpm (3.0 m/min)

2. Physical Properties:

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|--------------------------|---------------------------------------|
| 2.1. Density | 1.56 gm/cc |
| 2.2. Hardness | Rockwell 15X 88 |
| 2.3. Compression Modulus | 3.1 x 10 ⁵ psi (2,137 MPa) |

3. Typical Load Carrying Capabilities:

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|-------------------------------|----------------------|
| 3.1. Static Ultimate * | 80,000 psi (551 MPa) |
| 3.2. Static Limit ** | 50,000 psi (345 MPa) |
| 3.3. Dynamic (max.) | 25,000 psi (172 MPa) |
| 3.4. Dynamic (continuous) *** | 15,000 psi (103 MPa) |

Notes: * Equivalent to 1.5 times the static limit load, local liner distress may occur. Typical liner thickness 0.012 in. (0.3 mm).
** 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.
Typical liner thickness 0.012 in. (0.3 mm).
*** .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. Fluid Compatibility:

- 4.1. Compatible with aircraft hydraulic fluids, lubricating oils, jet fuels, de-icing fluids, cleaning fluids, and water.

5. Typical Applications:

- 5.1. For bearing applications requiring an extremely low friction level such as flight controls, flap/slat track rollers, landing gear joints and shock strut bearings, fuel control/pumps, and mechanisms.