KAron BX
Self-Lubricating Liner Material

1. Characteristics:
   1.1. Description: A non-peelable, non-fabric, machineable homogenous mixture of PTFE fibers and a polyester resin system that enables very low friction levels.
   1.2. Operating temperature range: -100°F to +325°F (-73 to +162°C)
   1.3. Coefficient of friction range: .02 - .12, depending upon pressure, area, temperature, and velocity.
   1.5. Surface speeds to 10 fpm (3.0 m/min)

2. Physical Properties:
   2.1. Density 1.505 gm/cc
   2.2. Hardness Rockwell M 90/100
   2.3. Compression Modulus 7 x 10^5 psi (4,828 MPa)

3. Typical Load Carrying Capabilities:
   3.1. Static Ultimate * 120,000 psi (827 MPa)
   3.2. Static Limit ** 80,000 psi (551 MPa)
   3.3. Dynamic (continuous) *** 33,000 psi (227 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 .003 inches (0.075 mm) after the load is applied for 3 minutes. Typical liner thickness 0.012 in. (0.3 mm).
   *** .0045 inches (0.114 mm) maximum permitted wear after 100,000 cycles of oscillation at ± 25° at 10 cpm (SAE AS81820A requirement). Typical liner thickness 0.012 in. (0.3 mm).

4. Applicable Specifications:
   4.1. Qualified to SAE AS81820 Type A

5. Typical Applications:
   5.1. For spherical bearing applications requiring extended life, such as flight controls, landing gear joints and shock strut bearings, fuel control/pumps, and mechanisms.
   5.2. The above information is to be considered as a guide only. Kamatics Engineering should be consulted for specific applications.

6. Fluid Compatibility:
   6.1. Compatible with aircraft hydraulic fluids, lubricating oils, jet fuels, de-icing fluids, cleaning fluids, and water.