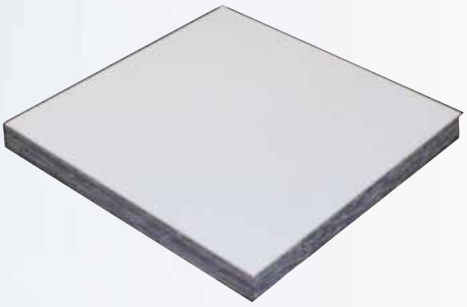
Fabreeka®-PTFE Bearing Pads

FABREEKA®
VIBRATION & SHOCK CONTROL



Fabreeka-PTFE bearing pads are manufactured using Fabreeka pad material with a Teflon® (PTFE) surface. The virgin Teflon is heat cured to the Fabreeka pad using a rigid, laminated thermoplastic (LTP). The rigid LTP layer prevents the PTFE from expanding/flowing under compressive load and rotation (also known as "cold flow"), as the bearing pad compresses.

Fabreeka-PTFE bearing pads are used for conditions where it is necessary to accommodate lateral movement (expansion). The PTFE provides a low friction sliding surface on the Fabreeka bearing pad, which distributes high compressive loads and accommodates rotations. In a structural bearing design, polished stainless steel is typically used as the smooth surface that the PTFE slides against.

Features and Attributes

- **Commonly used in structural expansion bearings and pipe slides**
- **Bearing pad meets AASHTO 18.4.9.1, MIL-C-882 and most state DOT specifications**
- **PTFE (Teflon) surface provides low friction for expansion**
- **Accommodates lateral movement and rotation**
- **Allows for rotations up to 0.02 radians under high pressure**

Physical Properties

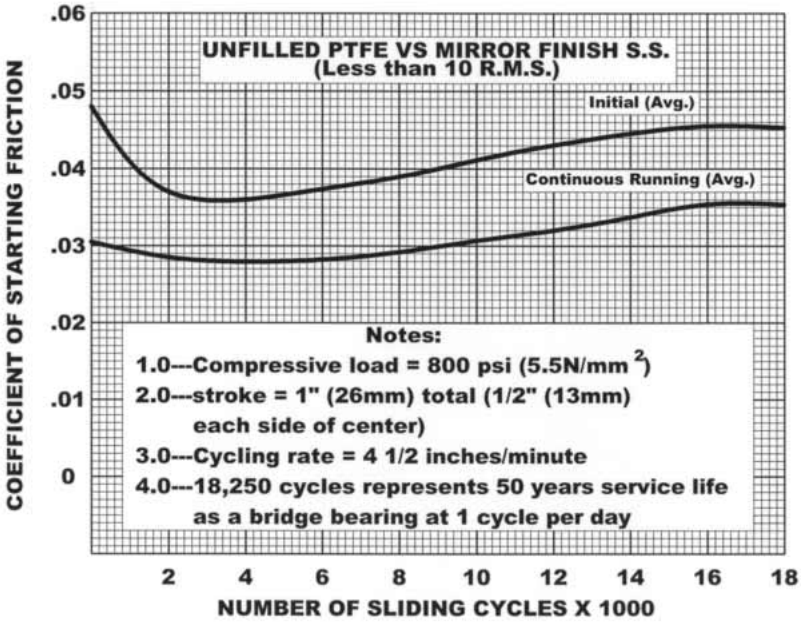
PROPERTY	TEST	SPECIFICATION
Hardness at 78°:	ASTM D2240	50-65 Durometer D
Tensile Strength:	ASTM D4894/4895	2,800 psi (min)
Elongation:	ASTM D4894/4895	200% (min)
Deformation under Load: 78°F - 2,000 psi (1/2" x 1/2" x 1/32")	ASTM D621	4% (max)
Specific Gravity:	ASTM D792	2.14 to 2.21

Note: **Please refer to the Fabreeka Bearing Pad specification sheet #1000-005 for the physical properties of the Fabreeka pad.**

Specification for Fabreeka®-PTFE Bearing Pads

The *bearing pad* shall be manufactured of all new (unused) materials and composed of multiple layers of prestressed 50/50 cotton-polyester blend duck, 8.1 ounce per net square yard, duck warp count 50 ± 1 threads per inch and filling count 40 ± 2 threads per inch, impregnated and bound with a high quality, oil-impervious nitrile rubber compound, containing rot and mildew inhibitors and anti-oxidants, compounded into resilient pads of uniform thickness. The pads shall withstand compressive loads perpendicular to the plane of laminations of not less than 10,000 psi before breakdown.

The *Polytetrafluorethylene (PTFE)* self-lubricating surface element shall be composed of 100 percent virgin (unfilled) polytetrafluorethylene polymer and bonded to a rigid confining substrate. The substrate shall limit the flow (elongation) of the confined PTFE to not more than 0.009″ under load of 2,000 psi for 15 minutes at 78°F for a 2″ x 3″ test sample. The virgin (unfilled) PTFE shall have a thickness of not less than 1/32″.



Additional Products for Building & Construction

SA-47 Bearing Pads

Fabreeka Bearing Pads AASHTO 18.4.9.1

Structural Expansion Bearings

Flexible Drain Trough

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