BSF INCORPORATED

ISO 9001:2000 CERTIFIED

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VIBRATION DAMPING BUSHING
TECHNICAL DATA

June 2002

Function

Used in combination with the vibration damping gasket to reduce the vibration and sound transmitted from a vertical motor/adaptor/pump assembly to the connecting structures by eliminating metal to metal vibration transmission paths and by reducing the natural frequency of vibration of the system.

Construction

material: solid homogeneous vinyl thermoplastic alloy

standard dimensions: flat washer shape with outside diameter = 1 3/8", inside diameter = 1/2", thickness 1/8" used in pairs so total thickness = 1/4"

Vibration Damping as characterized by material loss factor(n) at 1000 Hz

good damping (energy dissipation) occurs for n > 0.1

0 deg C (32 deg F)	0.1
10 deg C (50 deg F)	0.2
20 deg C (68 deg F)	0.4
30 deg C (86 deg F)	0.6
40 deg C (104 deg F)	0.7
50 deg C (122 deg F)	0.7
60 deg C (140 deg F)	0.5 approx

Temperature Operating Range

for steady temperature	minimum temperature	32 degrees F
	maximum temperature	125 degrees F
for short term temperature	maximum temperature	225 degrees F

Flammability UL94V meets V-O listed HB
meets MVSS-302

Chemical Resistance per ASTM D543

weight change less than 0.25% for kerosene, 2 molar sulfuric acid, distilled water, sea water, 1% soap solution, mineral oil

Tensile Strength per ASTM D-412-68 1323 psi

Compression Set per ASTM D-395-78 method A
for 24 hours at 72 deg F 6.9% short term, 1.0% long term

Hardness per ASTM D-2240-68 60/47 Shore D

Note: The data listed in this technical data sheet are typical or average values based on tests done by independent laboratories or by the material manufacturer. The data is typical only of those test results and should not be considered as guaranteed. Material tests must be done under actual service conditions to determine suitability.

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