GRANOR
RUBBER & ENGINEERING

GRANOR® ELASTOMERIC BEARINGS

GRANOR® FIBERLAST MATERIAL

FIBERLAST is manufactured from a high quality ozone resistant elastomer combined with randomly orientated synthetic fibres. This combination provides an elastomeric bearing pad having load capacity characteristics higher than that of plain unreinforced bearing pads but still soft enough to allow some movement via shear deformation.

FIBERLAST pads are typically used without a PTFE facing as a high rotation capacity pad or strip. However providing there is a rigid layer between the FIBERLAST and the PTFE, expansion bearings can also be manufactured using FIBERLAST.

Please consult GRANOR® for assistance with selecting pad dimensions for your design requirements.

FIBERLAST SPECIFICATION

Manufactured from a high quality ozone resistant virgin elastomer combined with synthetic fibre. Certification is provided by Notarised Statement.

MECHANICAL PROPERTIES

Specification	Result
Compression Min Ultimate Strength	55 MPa
Hardness ASTM D 2240 (Shore A)	80 ± 5
Shear Modulus ASTM D 4014-87	2 MPa
Apparent Shear Modulus	1.6 ± 0.2 MPa
Tensile strength ASTM D 412	6.9 MPa
Min. Ultimate Elongation ASTM D 412	40%
Thickness Gauge Tolerance	± 0.6 mm or 15% whichever is greater
Volume Resistivity, ASTM D257 (ohm^0 cm x 10^{10})	3.3

HEAT RESISTANCE 70 HOURS @ 100 ^{0} C

Specification	Result
Max. Change in Durometer Hardness ASTM D 573 (Shore A)	10
Max. Change in Tensile Strength ASTM D 573	-25%
Max. Change in Ultimate Elongation ASTM D 573	-25%

OZONE RESISTANCE 70 HOURS @ 37.8 ^{0} C, 100 PPHM

Specification	Result
Min. Tensile strength ASTM D 1149	5 MPa
Elongation ASTM D 1149	40%

OIL IMMERSION 70 HOURS @ 100 ^{0} C IN ASTM #3 OIL

Specification	Result
Volume Change ASTM D 4711	125%

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