

AASHTO Bearing Pads

WARCO BILTRITE manufactures a full line of bearing pads for use in bridge, building and reservoir construction. We formulate and mix our own compounds, maintain rigid quality control throughout the manufacturing process, and thoroughly test finished products to ensure excellent performance and load bearing resistance. Available in Natural Rubber and Neoprene formulations, in rolls 36" and 48" wide in thicknesses up to 1" and in molded forms 36" and 48" widths in lengths up to 30' (longer lengths available). For use where conformance to AASHTO specifications is required. Note that some states have additional requirements – when ordering identify all requirements or submit individual state specifications. Custom shapes and sizes are available on a special order basis.

Neoprene Unsupported AASHTO Bearing Pads

Available in lengths up to 30'. Longer lengths available, please call for quote. Also available in 36" x 36" and 48" x 48" slabs.

Finish: Smooth

Durometer Hardness Shore A \pm 5	Thickness Inches	Width	Tensile min. psi	Ultimate Elongation min. %	Temperature Range	Weight Per Linear Foot 36"	Test Method
50	1/4 thru 1	36, 48	2250	400	-40°F to +220°F	0.5 - 15.8	Hardness: ASTM D 2240 Tensile: ASTM D 412 Elongation: ASTM D 412
60	1/4 thru 1	36, 48	2250	350	-40°F to +220°F	0.5 - 16	Hardness: ASTM D 2240 Tensile: ASTM D 412 Elongation: ASTM D 412
70	1/4 thru 1	36, 48	2250	300	-40°F to +220°F	0.5 - 12.2	Hardness: ASTM D 2240 Tensile: ASTM D 412 Elongation: ASTM D 412

Certain states specify requirements other than standard AASHTO specifications. When ordering, identify all requirements or submit individual state specifications. Above meets the Standard Specifications for Highway Bridges, adopted by the American Association of State Highway and Transportation Officials. AASHTO M251 Unsupported Neoprene Bearing Pads are also available.

Test Method	Property	50 \pm 5 Durometer	60 \pm 5 Durometer	70 \pm 5 Durometer
ASTM D 573 Heat Resistance 70h at +212°F	Change in durometer hardness, max. points	15	15	15
	Change in tensile, max. %	-15	-15	-15
	Change in ultimate elongation, max. %	-40	-40	-40
ASTM D 395 Compression Set	22h at 212°F, max. %	35	35	35
ASTM D 1149 Ozone	100 pphm ozone in air by volume, 20% strain, 100°F \pm 2°F, 100h mounting procedure D518, Procedure A	no cracks	no cracks	no cracks
ASTM D 746 Low Temperature Brittleness	Grade 3, at -40°F	no failure	no failure	no failure
ASTM D 1043 Instantaneous Thermal Stiffening	Grade 3, at -40°F	Stiffness at test time shall not exceed 4 times the stiffness measured at 73°F		
Low Temperature Crystallization Quad Shear Test	Grade 3 14 Days at -15°F	Stiffness at test time and temperature shall not exceed 4 times the stiffness measured at 73°F with no time delay		

Natural Rubber Unsupported AASHTO Bearing Pads

Natural Rubber Unsupported AASHTO Bearing Pads are available in Grade 3 and Grade 4 in lengths up to 30'. Longer lengths available, please call for quote. Also available in 36" x 36" and 48" x 48" slabs. **Black in Color.**
Finish: Smooth

Durometer Hardness Shore A ± 5	Thickness Inches	Width	Tensile psi	Ultimate Elongation %	Temperature Range	Weight Per Linear Foot 36"	Test Method
50	1/4 thru 1	36, 48	2250	450	Grade 3: -40°F to +170°F Grade 4: -50°F to +170°F	0.5 - 11.8	Hardness: ASTM D 2240 Tensile: ASTM D 412 Elongation: ASTM D 412
60	1/4 thru 1	36, 48	2250	400	Grade 3: -40°F to +170°F Grade 4: -50°F to +170°F	0.5 - 12	Hardness: ASTM D 2240 Tensile: ASTM D 412 Elongation: ASTM D 412
70	1/4 thru 1	36, 48	2250	300	Grade 3: -40°F to +170°F Grade 4: -50°F to +170°F	0.5 - 12.2	Hardness: ASTM D 2240 Tensile: ASTM D 412 Elongation: ASTM D 412

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Test Method	Property	50 ± 5 Durometer	60 ± 5 Durometer	70 ± 5 Durometer	
ASTM D 573 Heat Resistance 70h at 158°F	Change in durometer hardness, max. points	10	10	10	
	Change in tensile, max. %	-25	-25	-25	
	Change in ultimate elongation, max. %	-25	-25	-25	
ASTM D 395 Compression Set	22 hours at 158°F, max. %	25	25	25	
ASTM D 1149 Ozone	25 pphm ozone in air by volume, 20% strain, 100°F ± 2°F 48h mounting procedure D518, Procedure A	no cracks	no cracks	no cracks	
ASTM D 746 Low Temperature Brittleness	Grade 3, at -40°F	Grade 4, at -55°F	no failure	no failure	no failure
ASTM D 1043 Instantaneous Thermal Stiffening	Grade 3, Tested at -40°F	Grade 4, Tested at -50°F	Stiffness at test time shall not exceed 4 times the stiffness measured at 73°F		
Low Temperature Crystallization Quad Shear Test	Grade 3, 14 Days at -15°F	Grade 4, 21 Days at -35°F	Stiffness at test time and temperature shall not exceed 4 times the stiffness measured at 73°F with no time delay		

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