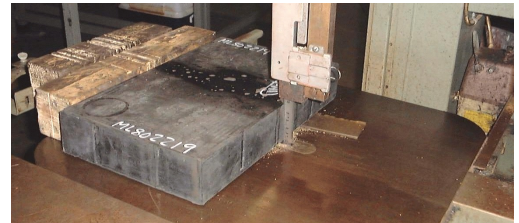




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BRIDGE BEARING PAD TESTING Destructive Testing

PNL has a complete testing facility equipped with certified calibrated test instruments capable of performing all elastomer tests as required by the AASHTO Standard Specifications for Highway Bridges, Division II, Chapter 18 and AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing, Nineteenth Edition, Designation M251. The material for the tests below is typically extracted from bearing pads that have been dissected through different cross sections or from pre-molded slabs or other forms. Both natural and neoprene material tests can be performed.



Physical Properties

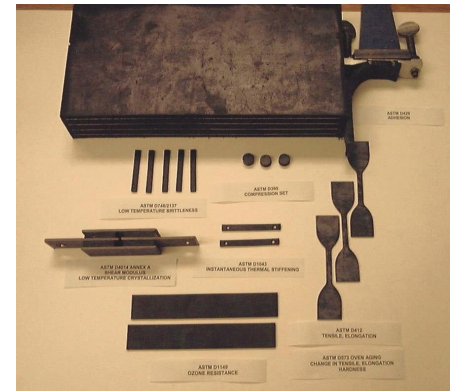
ASTM D2240	Hardness (Shore A)
ASTM D412	Tensile Strength, Ultimate Elongation
AASHTO	Internal Dimensions (Shim spacing, edge cover, top and bottom cover, etc.)

Aging and Conditioning Properties

ASTM D573	Heat Resistance: Hardness, Tensile Strength, Ultimate Elongation
ASTM D395	Compression Set
ASTM D1149	Ozone Resistance

Cold Temperature Testing (Grades 0, 2, 3, 4, 5)

ASTM D746/D2137	Low Temperature Brittleness
ASTM D1043	Instantaneous Thermal Stiffening
ASTM D4014	Low Temperature Crystallization



Elastomer Performance Characteristics

ASTM D4014	Shear Modulus
ASTM D429	Test for adhesion between elastomer and steel laminates and/or vulcanized sole plates.

PNL also provides other specific tests referenced in AASHTO, American Railway Engineers Association (AREA), and other State requirements.

ASTM D1229: Low temperature compression set
 ASTM D624: Tear resistance
 ASTM D471: Oil Swell
 ASTM D575: Compression Strain
 PTFE materials: ASTM D638 - Physical Properties, ASTM D792 - Specific Gravity
 Presence of Chlorinated Compounds