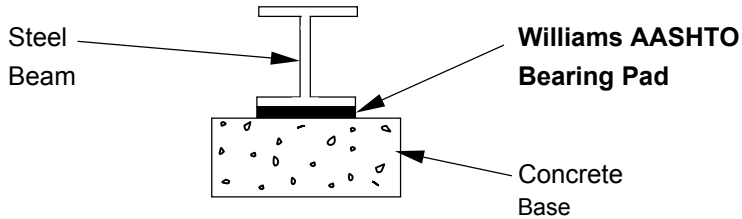


TECH DATA

WILLIAMS AASHTO GRADE NEOPRENE BEARING PADS SPECIFICATION M251-90

revised 6-20-03
revised 10-06-06



Description: Neoprene Bearing Pads are molded or cut from a molded sheet of high-grade, new rubber compound.

Use: As an economical, efficient bearing pad for pre-cast, pre-stressed concrete or steel beams in bridges and buildings. Neoprene pads permit a smooth and uniform transfer of load from the beam to the substructure, allow beam rotation at the bearing due to deflection of the beam under load. Neoprene pads have no movable parts and thermal expansion and contraction are absorbed by the pad's ability to give and take in shear. There is no sliding between pad and beam or between pad and abutment.

Material Property	ASTM Standard	Test Requirements	POLYCHLOROPRENE			Units
			50 Duro	60 Duro	70 Duro	
Physical Properties	D2240	Hardness	50 ± 5	60 ± 5	70 ± 5	Shore Pt
	D412	Min tensile strength	2500	2500	2500	psi (Mpa)
		Min ultimate elongation	400	350	300	%
Heat Resistance	D573 at *spec. Temp	Specified temp of test	212 (100)	212 (100)	212 (100)	°F (°C)
		Aging time	70	70	70	Hours
		Max change in Duro hardness	+15	+15	+15	*Shore pt
		Max change in tensile strength	-15	-15	-15	%
		Max change in ultimate elongation	-40	-40	-40	%
Impression Act	D395 Method B at *spec. Temp	Specified temp of test degrees	212 (100)	212 (100)	212 (100)	°F (°C)
		Max permissible test (after 22 hours)	35	35	35	%
Bar resistance	D624	Min pounds per inch (Die C)	180	180	180	Pounds/inch
Brittleness	D2137	Low temp brittleness at -40°F (-40°C)	Pass	Pass	Pass	Mpa
		Partial pressure of ozone during test	50	50	50	
Ozone Resistance	D1149	Duration of test	100	100	100	Hours
		Tested at 20% strain	No	No	No	
		100°F ± 2°F (37.7°C ± 1°C)	No	No	No	
		Mounting Procedure	Cracks	Cracks	Cracks	

Williams Products, Inc. Certifies 2500 PSI tensile strength.

Note: **Williams Bearing Pads** conforms to grade 3 as follows:

Low temp brittleness: D-746, procedure B, @ -40°F, resulting in no failures, 50, 60 and 70 ± 5% shore A durometer.

Instantaneous Thermal Stiffening: grade 3, tested @ -40°F.

Low temp Crystallization: Grade 3, 14 days, @ -15°F.

Stiffness at test temperature shall not exceed 4 times the stiffness measured at 73°F.



To the best of our knowledge this published information is accurate, however, to determine suitability of material/product for a specific application is the user's responsibility. Williams Products, Inc. shall not be liable for any loss or damage resulting from inappropriate usage.

WILLIAMS PRODUCTS, INC.

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