



Specification Sheet

Material	M251-06 (2011) Plain Neoprene Elastomer Bridge Bearings
BRP Style	Grade 2 - 50, 60 , 70 Duro and Grade 3 – 50, 60, 70
Finish	Smooth
ASTM Callout	See specification below

Physical Properties

Requirement	Condition			
Hardness, Original	ASTM D2240	50 ±5	60 ±5	70 ±5
Tensile, Original	ASTM D412 – MPa / PSI Min	15.5 / 2,250	15.5 / 2,250	15.5 / 2,250
Elongation, Original	ASTM D412 – %	400	350	300

Heat Resistance, Test Method D 573, 70 h @ 100°C

Hardness Change	Points	+ 15	+ 15	+ 15
Tensile Change	%	- 15	-15	- 15
Elongation Change	%	- 40	- 40	- 40

Compression Set, Test Method B ASTM D395 S, max, % 22 h @ 100C

Compression Set	%	35	35	35
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Ozone Test Method D1149 100 pphm in air by volume 20% strain 100F +/-2, mounting D518 procedure A

		No Cracks	No Cracks	No Cracks
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Low Temperature Brittleness, Test Method D746 Procedure B

Grade 0 and 2	No Test Required			
Grade 3	- 40 C°	Pass	Pass	Pass

Instantaneous Thermal Stiffening

Grade 0 & 2	Tested @ -25F	Stiffness at test temperature shall not exceed 4 times the stiffness measured at 73F
Grade 3 – Tested @ -40F	Tested @ -40F	Stiffness at test temperature shall not exceed 4 times the stiffness measured at 73F

Low Temperature Crystallization

Grade 0	No Test Required	
Grade 2	7 days @ 0	Stiffness at test temperature shall not exceed 4 times the stiffness measured at 73F
Grade 3	14 days @ -15 F	Stiffness at test temperature shall not exceed 4 times the stiffness measured at 73F