

BRP Manufacturing Company  
 637 North Jackson Street  
 Lima, Ohio 45802  
 Phone: 419-228-4441  
 Fax: 419-222-5010  
 Toll free: 800-858-0482



## Specification Sheet

Material	Nitrile Rubber Sheet - Ultra Strength
BRP Style	BG725 - Style 407
Finish	Smooth
ASTM Callout	ASTM D2000 5BG725A14B14EA14EO34F17

## Basic Requirements

Requirement	Condition	Specification Requirements
Hardness, Original	ASTM D2240	70±5
Tensile, Original	ASTM D412 - PSI Min	2,500
Elongation, Original	ASTM D412 - %	300

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

Tensile Change	PSI	+/- 30%
Elongation Change	%	-50 % Max
Hardness Change	Points	± 15

## Oil immersion, Test Method D471, IRM 903 Oil, 70 h @ 100°C

Volume Change	% Max	+40
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## Compression Set, Test Method ASTM D395 Solid, max, % 22 h @ 100C

Compression Set	%	50% Max
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## Additional Requirements

### A14 - Heat Resistance, D573, 70 hours @ 100C°

Tensile Change	PSI	- 20% Max
Elongation Change	%	- 40% Max
Hardness Change	Points	± 15

### B14 - Compression Set, Test Method D395 Method B, 22 h @ 100°C, max. %

Compression Set	% Max	25% Max
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### EA14 - Water Resistance, Test Method D471, 70 h @ 100°C, max. % (Gr 2)

Change In Hardness		+/- 10 Pts Max
Change in Volume	% Max	+/- 15 % Max

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**EO14 - Oil Resistance, Test Method D471 NO 1 Oil, 70 h @ 100 C°**

Change Hardness	Pts	-5 to + 15
Change Tensile	% max	-25
Change Elongation	% max	- 45
Volume	%	-10 to +5

**EO34 - Oil Resistance, Test Method D471 NO 3 Oil, 70 h @ 100 C°**

Change Hardness	Pts	-0 to + -20
Change Tensile	% max	-45
Change Elongation	% max	- 45
Volume	%	0 to +25

**F17 - Low Temperature Brittleness, Test Method D2137 Method C, 9.3.3 non brittle after 3 mins. @ -40° C (Gr 2)**

		Pass
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Operating Temperature Range -40° - 212° F