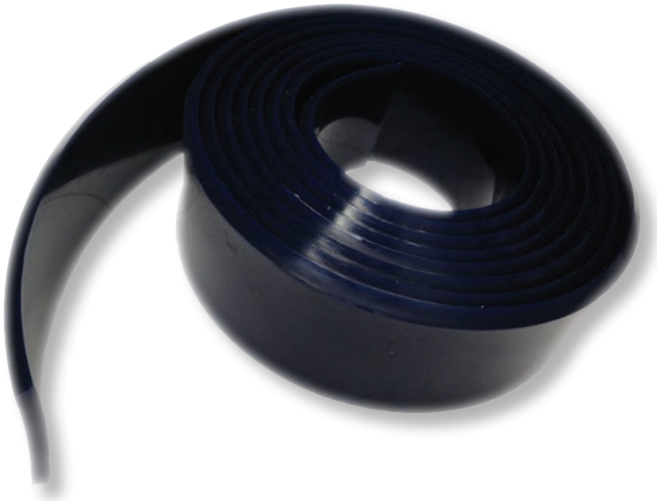
CONVEYOR SKIRT BOARD

AMERICAN EAGLE MANUFACTURING LLC

BLUE-FLEX™



SIZE	ITEM NUMBER
4” x 1/4	EBF-4-250
4” x 3/8	EBF-4-375
4” x 1/2	EBF-4-500
4” x 3/4	EBF-4-750
4” x 1”	EBF-4-100
6” x 1/4	EBF-6-250
6” x 3/8	EBF-6-375
6” x 1/2	EBF-6-500
6” x 3/4	EBF-6-750
6” x 1”	EBF-6-100
8” x 1/4	EBF-8-250
8” x 3/8	EBF-8-375
8” x 1/2	EBF-8-500
8” x 3/4	EBF-8-750
8” x 1”	EBF-8-100
10” x 1/4	EBF-10-250
10” x 3/8	EBF-10-375
10” x 1/2	EBF-10-500
10” x 3/4	EBF-10-750
10” x 1”	EBF-10-100
12” x 1/4	EBF-12-250
12” x 3/8	EBF-12-375
12” x 1/2	EBF-12-500
12” x 3/4	EBF-12-750
12” x 1”	EBF-12-100

Dust Containment

Our URETHANE BLUE-FLEX™ SkirtBoard is the solution for dust containment in bulk transfer points. Designed to have low coefficient friction that reduces drag, BLUE-FLEX combines a high tensile strength resulting in longer wear and less tearing compared to rubber skirtboard. The benefits extend beyond dust containment to less maintenance cost, less downtime for replacement and less overall belting and motor fatigue.

Benefits of BLUE-FLEX™

- Special 58A urethane compound
- Additives for lubricity
- 60% lower coefficient of friction
- Reduced drag
- 3-4 times wear life over rubber

PROFILES AVAILABLE

*** Straight (-A)**
*** 20° Angle (-B)**
*** 35° Angle (-C)**

Custom sizes, lengths and durometer available upon request

***BLUE-FLEX™* comes in standard 20’ and 50’ rolls with 35° on one side and 90° on the other**

Please note profile code letter on the end of skirt board item number.

SAMPLE EBF - 6 - 500 - A

Width Thickness Profile

www.americaneaglemanufacturing.com
1-866-713-8985

TECHNICAL SKIRT BOARD MATERIAL DATA SHEET

American Eagle Manufacturing LLC skirt board, BLUE-FLEX is formulated from high wear resistance materials with a low coefficient of friction. Our advanced compound processing equipment lets us introduce additives that enhance the lubricity of our urethane. This results in a non stick material which in return gives BLUE-FLEX material the least amount of coefficient of friction in the test results below. We also produce a similar skirt board. WHITE-FLEX which was designed for direct food contact applications. Both of these products will last 2-3 times longer than natural rubber and special compound rubber skirt board.

SKIRT BOARD BRAND	COMPOUND NUMBER	COLOR	DUROMETER	TYPE	ASTM D412 Tensile Strength	ASTM D412 Elongation	Tear strength: Die C	Split tear	Taber Abrasion (H-18 Wheel,1000g load,1000 cycles)	Max Temp Heat °C/°F	Max Temp Cold °C/°F
BLUE-FLEX™	BU242-58	Blue	58A	ESTER	3950	650	568	pli 310	42 mg loss	70°/160°	-40°/-40°
PURE-WHITE™	BU242-58F	White	58A	ESTER	3680	575	485	pli 300	45 mg loss	70°/160°	-40°/-40°

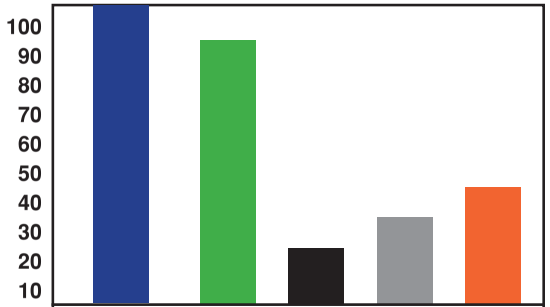
Note: The information contained in this bulletin we believe to be accurate. All evaluations and test's were done under a controlled environment setting. Since conditions of end-user use are beyond our control, all risks are assumed by the user.

SPECIAL NOTE: While conducting test and evaluations we discovered that BLUE-FLEX material kept it's flexability under harsh cold environments. Results showed no cracking or fatique like in rubber skirt board.

SKIRT BOARD MATERIALS COMPARISON CHARTS

ABRASION RESISTANCE CHART

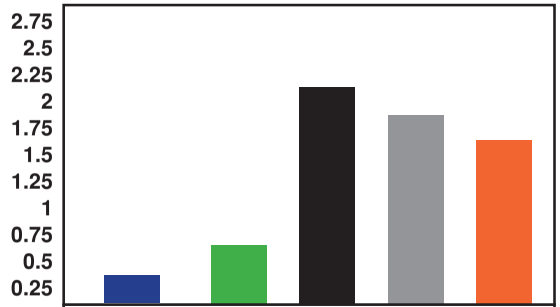
Taber Abrasion (H-18 Wheel,1000g load,1000 cycles)



	BLUE-FLEX	Standard Urethane	Natural Rubber	SBR	ORANGE Rubber
Durometer	58A	65A	40A	50A	50A
%	98	90	23	35	47

Test Method was done on a Tabor Abrasion machine. The chart above show the % of material left after 1000 cycles at a 1000g load. The type wheel used was a H-18. The chart shows the BLUE-FLEX to be 2-3 times more resistant to wear against rubber skirt board. Also in field test against rubber skirt board we saw on average the same results. Some field test showed 4 times life expectancy against rubber skirt board.

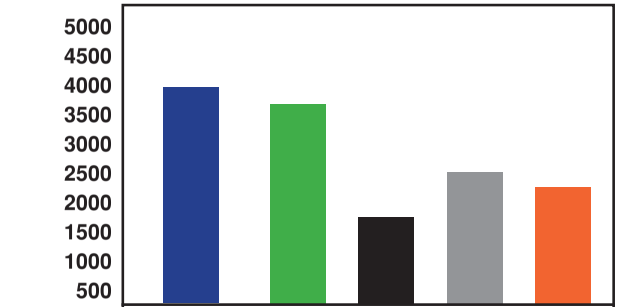
FRICTION CHART (BASED ON 100psi)



	BLUE-FLEX	Standard Urethane	Natural Rubber	SBR	ORANGE Rubber
Durometer	58A	65A	40A	50A	50A
μ	.31	.59	2.15	1.82	1.60

Friction chart's data is the most important of the three. The coefficient of friction of skirt board dictates the final outcome of why BLUE-FLEX is the best choice for sealing your load-zone. Less transfer of heat build up between belt and skirting equals no belt damage along with less motor fatigue. Our field test show zero wear and or grooving to the belt. Less friction on the belt equals less skirt board wear.

TENSILE STRENGTH (ASTM 412)



	BLUE-FLEX	Standard Urethane	Natural Rubber	SBR	ORANGE Rubber
Durometer	58A	65A	40A	50A	50A
	3950	3850	1700	2500	2300

The chart above shows the tensile strength differences between materials. As you can see BLUE-FLEX and standard urethane has the highest tensile strength which results will show in break and tear loads. This is important when accidental excessive loading of material happens at loadzone area. The high tear strength also results in increase life expectance in coarse material applications.

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