



## POLYSLICK® MARINE



Ultra High Molecular Weight Polyethylene Fendering



Fender Pads



Flexi Fend®

U.S. Patent Nos. 6,832,570 /  
6,948,440 / 7,624,694 / 8,029,209



Pileguard

### APPLICATIONS

Dock Facings

Bridge Fenders

Boat Rails and Gunnels

Canal Lock Door Panels

Lock and Dam Guidewall

Dry Dock Walls and Side Rails

Pile Facings

Gate Fenders

Floating Docks

Pipeline Fenders

Wharf, Pier and Lock Fenders

Offshore Pump Station Fenders

Rub Rails

Sliding Pads

Pier Protection

Guide Rollers

Canal Lock Walls

Keel and Bilge Block Facings





**POLYSLICK®**  
**MARINE**



**UHMW-PE DOCK FENDERS AND FENDER PADS**

FEATURES

Impact resistant  
Abrasion resistant  
UV protected  
Will not corrode, rot or splinter

Resists marine borers and barnacle growth  
Non-sparking  
Can be drilled, chamfered and fabricated to meet customer specifications

COLORS

Black                      Yellow  
Custom Colors

SIZES

Thickness                      inch / mm  
0.125 to 10 / 3 to 250

**UHMW-PE FLEXI FEND®**

FEATURES

Non-marking  
Non-grabbing  
Absorbs energy  
Impervious to salt water and oil  
Leaf shape allows it to flex with impact and return to shape with no permanent damage

High visibility  
Easy installation  
Eliminates paint or tape  
Will not corrode, rot or splinter  
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COLORS

Black                      Gray  
Custom Colors

SIZES

T x H x W	<u>inch / mm</u>	<u>inch / mm</u>
	0.25 x 4 x 2.13 / 6 x 100 x 53	0.5 x 10 x 4.2 / 12 x 250 x 105
	0.375 x 4 x 2.13 / 9.5 x 100 x 53	0.625 x 10 x 4.2 / 15 x 250 x 105
	0.375 x 10 x 4.2 / 9.5 x 250 x 105	1 x 10 x 4.2 / 25 x 250 x 105



**UHMW-PE PILEGUARDS**

FEATURES

Impact resistant  
Abrasion resistant  
UV protected  
Will not corrode, rot or splinter

Resists marine borers and barnacle growth  
Non-sparking  
Can be drilled, chamfered and fabricated to meet customer specifications

COLORS

Black                      Yellow  
Custom Colors

SIZES

Thickness                      inch / mm  
1.25 / 32  
Width x Length                      12 x Up to 30 feet / 300 x Up to 9 meters

**UHMW-PE CUSTOM FENDERS**

Fenders can be fabricated, heat or cold formed to customer specifications.  
Custom colors and formulations available.

Distributed by:

**POLYMER INDUSTRIES**

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# POLYMER INDUSTRIES

## Polyslick® UHMWPE for Marine Fendering

BRUV – Black Reprocessed UV stabilized UHMWPE

BVUV – Black Virgin UV stabilized UHMWPE

BVXLUV – Black Virgin Crosslinked UV stabilized UHMWPE

Other colors are available upon request

*Property	Method	Unit	BRUV Value	BVUV Value	BVXLUV Value
Density	ASTM D792	g/cm <sup>3</sup>	0.932	0.932	0.932
Hardness	ASTM D2240	Shore D	66	64	65
Tensile Yield	ASTM D638	psi	3,300	3,500	3,500
Tensile Break	ASTM D638	psi	4,150	5,200	4,350
Elongation at Break	ASTM D638	%	300	340	300
Compressive Strength	10% Def.; ASTM D695	psi	3,000	3,000	3,000
**Abrasion	Internal	-	9	10	8
IZOD Impact	ASTM D4020 A	kJ/m <sup>2</sup>	80	100	95
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F	7 x 10 <sup>-5</sup>	9 x 10 <sup>-5</sup>	4 x 10 <sup>-5</sup>
Coefficient of Friction					
Static vs. Steel	ASTM D1894	Unitless	0.2	0.2	0.2
Dynamic vs. Steel	ASTM D1894	Unitless	0.15	0.15	0.15

\*The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

\*\*This refers to relative volumetric abrasion loss in a sand slurry test with Polyslick Natural = 10. The lower the number the better the abrasion resistance.

Typical Properties reported herein were determined on compression molded samples prepared in accordance with Procedure C of ASTM D4703, Annex A1.