

material for dock fenders,
lock gate fenders, and piling wraps

Curbell PLASTICS

Röchling Engineering Plastics
Polystone® M (UHMW-PE)
Ultra High Molecular Weight Polyethylene
Benefits:

- extremely tough and abrasion resistant
- low friction
- easy to machine
- easy to install
- will not absorb moisture
- color runs completely through material
- environmentally friendly – easy to recycle
- UV resistant grades available



Röchling Engineering Plastics Polystone® M (UHMW-PE) Dock Fendering Panels

available colors – yellow • orange • black • custom colors upon request



Put us to work – for you!™

Curbell Plastics has been supplying plastic sheet, rod, tube, films, adhesives, sealants, tapes, prototyping and tooling materials, and fabricated parts for over 65 years

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CURBELL PLASTICS, INC.
NATIONWIDE 1.888.CURBELL
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Röchling Engineering Plastics Polystone® M



Polystone® M (UHMW-PE)

A tough, wear resistant plastic that combines an incredibly low coefficient of friction with outstanding impact strength and excellent chemical resistance. It is environmentally friendly and easy to recycle making it the perfect choice for dock fendering applications.



Polystone® M Physical Properties

PROPERTY	UNITS	ASTM TEST	Polystone® M
Specific gravity 73° F	gm/cm ³	D-792	.930
Tensile strength at yield 73° F	psi	D-638	3,100
Ultimate tensile strength 73° F	psi	D-638	7,000
Elongation at break 73° F	%	D-638	350
Flexural modulus 73° F	psi	D-790	110,000
Hardness (R) 73° F	-	D-785	62-66
Izod impact (notched) 73° F	ft-lbs/in of notch	D-256	18.0-30.0
Coefficient of friction vs. steel (dynamic)	-	-	.10-.20
Coefficient of linear thermal expansion	in/in/° Fx10 ⁻⁵	D-696	11.1
Maximum continuous service	°F	-	180
Water absorption (immersion 24 hours)	%	D-570	slight

Standard Sizes

SHEET: 48"x96" (0.03125"-4.0" thick), 48"x120" (0.03125"-7.0" thick)

POLYSTONE® M MEGASHEET: 96"x240" (0.375" - 4.0" thick)

ROD: diameter 0.25" - 10.00"

TUBE: diameter 2.0" - 9.375"

PROFILES: standard and custom

WEAR STRIP AND CUT TO SIZE BLOCKS: available by request

Length, width, thickness, and diameter tolerances vary by size • Custom sizes and colors available upon request