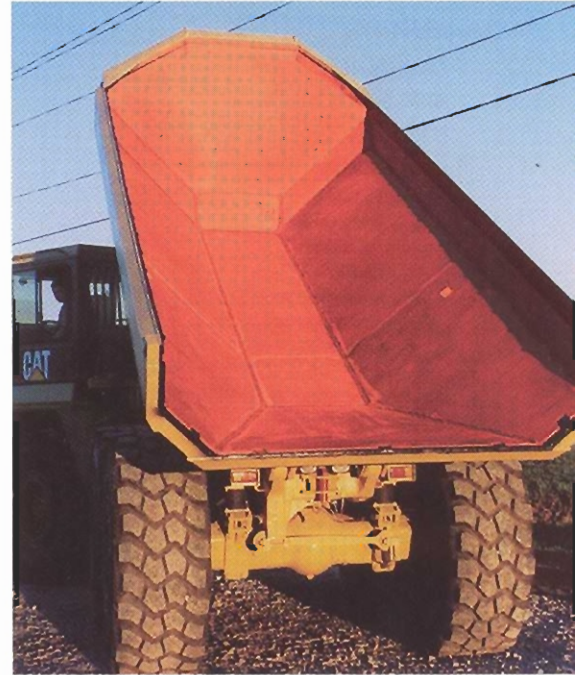
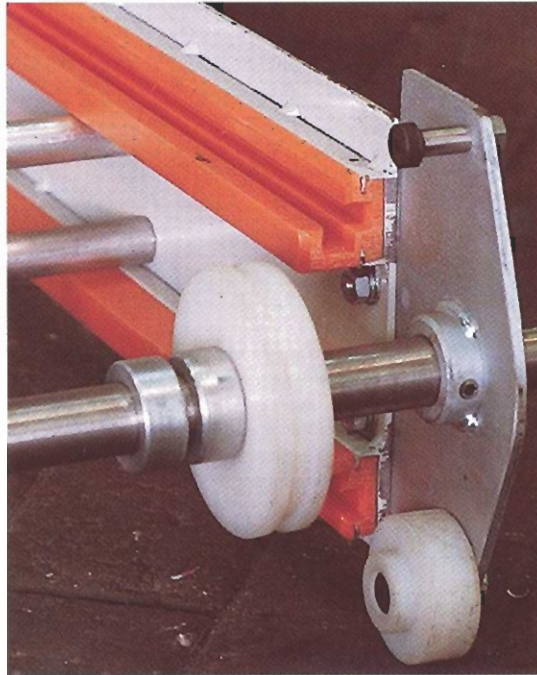


Polystone®
Thermoplastics

Polystone® M Extreme
Solving industry's extreme wear problems



Polystone® M Extreme solves your abrasion, corrosion and material flow problems.

Polystone® M Extreme is an enhanced premium grade of UHMW-PE engineered to provide ultimate wear resistance in the most demanding industrial applications. This unique polymer will provide as much as 30% increased wear-resistance over standard grades of UHMW-PE. The dimensional stability is significantly improved, and because it's U.V. stabilized, the outdoor life is extended by as much as five times.

Take your wear problems to the Extreme.

Characteristics

- Excellent abrasion resistance – up to 30% better than standard grades of UHMW-PE
- U.V. stabilized-making outdoor life up to five times longer than standard grades of UHMW-PE
- Improved dimensional stability
- Excellent chemical resistance – resistant to most industrial acids
- Promotes smooth material flow while virtually eliminating sticking problems

Applications

Polystone® M Extreme is formulated to perform in a wide range of industrial applications, especially those requiring a product with increased wear resistance, better dimensional stability or U.V. stabilization.

- Bin, chute and hopper liners
- Conveyor wear strips and guides
- Side rails and skirtboards
- Rollers and roller sleeves
- Slider bed impact bars

Standard Color

Orange
(Other colors available upon request)

Sheets

1/32" - 4" x 48" x 120"

Rods

1/2" - 6" Diameter

Tubes

2" - 7 1/8" outside diameter

Profiles

Standard and Custom

Physical Properties		Polystone® M		
Property	Units	ASTM Test	Extreme	Natural
Density	gm/cm ³	D792	.932	.930
U.V. Resistance	—	—	U.V. Stabilized	—
Tensile Strength at Yield 73° F	psi	D638	2900	3100
Elongation 73° F	%	D638	330	350
*Relative Volumetric Abrasion Loss	*	*	85	100
Coefficient of Friction 73° F on Steel	—	—	.15 - .20 .08 - .18	.15 - .20 .10 - .20
IZOD Impact Strength 73° F	KJ/m ²	D4020-96	120	125
Hardness 73° F	Shore	D785	D62-66	D 62-66
Melting Point	°F	D789	275° - 280°	275° - 280°
Coefficient of Linear Thermal Expansion	1/K	D696	1.0 x 10 ⁻⁴	2.0 x 10 ⁻⁴
Continuous Service	°F	—	180	180
Volume Resistivity	ohm/cm	D257	>10 ¹⁵	>10 ¹⁵
Dielectric Constant (10 ⁶ Hz)	—	D150	2.3	2.3
Dielectric Strength	KV/mm	D149	900	900

* Industry standard test method using a slurry of 60% aluminum oxide and 40% water at a rotation speed of 1750rpm for 2 hours. Results indicate the ability of each material, in relation to Natural(=100), to resist abrasion under typical UHMW-PE applications. A lower number indicates better abrasion resistance.

The values given are based on laboratory testing backed with global industry experience. All properties have performed equal or better in laboratory testing. However, the data should not be considered as guaranteed specific properties.



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