

Report

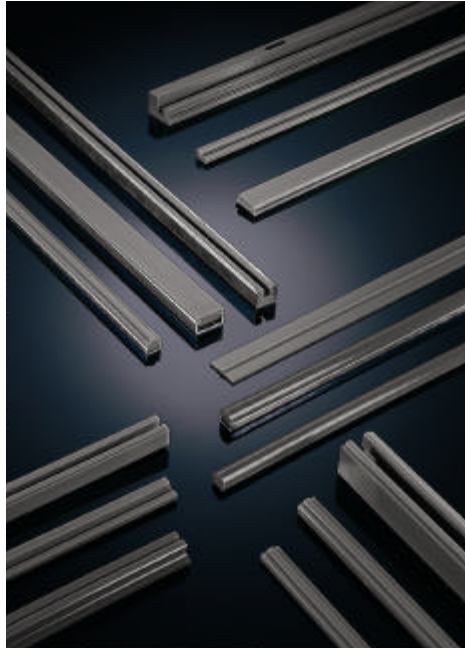
New Product Development



Polystone® M-Slide

Polystone® M-Slide is an advanced UHMW-PE formulation developed with unique additives to even further reduce its coefficient of friction. This product was designed in response to demands from the packaging and material handling industries that require exceptional frictional and abrasion resistant properties.

Polystone® M-Slide closes the gap between Polystone® M and P.T.F.E., and best of all, at only a fraction of the cost.



Applications

Straight and Curved Tracks, Guide Rails, Chain Guides, Starwheels, Wear Plates and Non-stick Liners

Sheets

1/8" - 4" x 48" x 120"

Rod

1/2" - 6" diameter

Tubes

2" - 7 1/8" outside diameter

Profiles

Standard and custom

Cut-to-size pieces and

custom parts also available

Physical Properties		Polystone® M		
Property	Units	ASTM Test	M-Slide	Natural
Density	gm/cm ³	D792	.95-.96	.930
Coefficient of friction 73° F on steel	Static Dynamic	—	.10-.15 .07-.10	.15-.20 .10-.20
*Relative volumetric abrasion loss	*	*	85	100
Tensile strength at yield 73° F	psi	D638	>3200	3100
Hardness 73° F	Shore	D785	D 62-66	D 62-66
Coefficient of linear thermal expansion	1/K	D696	1.0 x 10 ⁻⁴	2.0 x 10 ⁻⁴

**Industry standard test method using a slurry of 60% aluminum oxide and 40% water at a rotation speed of 1750 rpm 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.