



712 38th Street N Unit D
 Fargo, North Dakota 58102
 (701) 282-7447 • (800) 373-7448

Super-Slide UHMW Blue Iron is a UHMW repro polymer mix. By adding special filler, our material is able to withstand high temperatures and still holdup its abrasion resistance. The improved low coefficient of friction (non-stick surface) makes this material ideal for UHMW PE lining applications where sticking or caking of bulk goods can create a build-up of material. In such application where there is a material flow problem, time and money is lost. Our UHME PE liner will help you solve these problems.

Properties: Excellent sliding properties
 Low coefficient of friction
 Good notched impact strength
 No sticking or caking of bulk materials
 Higher temperatures than normal UHMW-PE
 Can be welded

Color: Blue pigment 595

Application fields: Bulk goods handling
 Conveyor industry (earth moving equipment)
 Truck liners, hoppers, chutes, and rail road car liners
 Gypsum industry/cement industry
 Trucks (Dump trucks, tandem trucks, garbage trucks)
 End dumps
 Live bottoms
 Hoppers
 Airboats

For more information, go to the Blue Iron page on www.superslide.com





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Specification Sheet

Physical Properties	Method	SI Unit	SI Value
Density	ASTM D792	gg/cc	>.93
	ISO 1183-1	g/cm ³	>.93
Abrasion (Sand-Slurry-Test rel. to GUR 4120=100%)	ISO 15527	% (Average)	130 (±10%)
Notched impact strength	ISO 11542-2	mJ/mm ² kJ/m ²	>80
Tensile strength, yield	ASTM D638	psi	>2500
	ISO 527-2	MPa	>17
Break Elongation	ASTM D638	%	>100
	ISO 527-2	%	>50
Creep properties under varying compressive stress: Creep <10%	max	psi	1450
		MPa	10
Coefficient of friction ASTM 1894 metal= Rz 2,5 μ, Pm = 2 N/mm ² , V=150 mm/min	Static	μ	.16
	Dynamic	μ	.10
Shore-hardness, 3-s-value 6mm plate	ASTM D2240	D	62
	ISO 868/DIN 53505	D	62
Water absorption	-	%	<.1 (Nil)
Flammability	UL 94	-	HB
Thermal Properties			
Melt temperature	ASTM 3417 (DSC)	°F	275-278
	ISO 3146 (DSC)	°C	135-137
Permanent operation temp, max	-	°F	~176-200
		°C	~80-93
Coefficient of linear expansion	ASTM D696	73-176 °F	≈1.1x10 ⁻⁴ /°F
	DIN 53752	23-80°C	≈2.0x10 ⁻⁴ /°C
Electrical Properties			
Surface resistivity	ASTM D257	Ohm	>10 ¹⁴
	IEC 93	Ω	>10 ¹⁴
Volume resistivity	ASTM D257	Ohm-cm	>10 ¹⁴
	IEC 93	Ω*cm	>10 ¹⁴

