HORN PLASTICS INC.

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 are lost. Our UHMW 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 railroad car liners
Gypsum industry/cement industry
Trucks (Dump trucks, tandem trucks, garbage trucks)
End dumps
Live bottoms
Hoppers

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Specification Sheet

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

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