



Super-Slide UHMW Red Hot is a UHMW polymer with a 7 million molecular weight

Properties:

- Excellent sliding properties
- Low coefficient of friction
- Good notched impact strength
- No sticking or caking of bulk materials
- Higher temperature
- Can be welded

Color: Red pigment #354

Application Fields:

- Bulk goods handling
- Conveyor industry (earth moving equipment)
- Truck liners, hoppers, chutes, railroad car liners
- Gypsum industry/cement industry
- Tandem trucks
- End dumps
- Hoppers
- Cold-feed bins
- Live-bottom trailers



Specification Sheet For ½” Thickness

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	%	80 (±10%)
Notched impact strength	ISO 11542-2	mJ/mm ² kJ/m ²	>100
Tensile strength, yield	ASTM D638	psi	>2500
	ISO 527-2	MPa	>17
Break Elongation	ASTM D638	%	>350
	ISO 527-2	%	>50
Creep properties under varying compressive stress: Creep <10%	Max	psi MPa	1150 8
Coefficient of friction ASTM 1894 metal= Rz 2,5 μ, Pm = 2 N/mm ² , V=150 mm/min	Static	μ	.15
	Dynamic	μ	.09
Shore-hardness, 3-s-value 6mm plate	ASTM D2240	D	61
	ISO 868/DIN 53505	D	61
Water absorption	-	%	<.1 (Nil)
Flammability	UL 94	-	HB
Thermal Properties			
Short-Term Operating Temp (1-2 hours)		°F	375-400
Long-Term Operating Temp	-	°F	225-250
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

**Short-Term Operating Temp (1-2 hours) for 3/8” thickness = 275-300 °F

**Long-Term Operating Temp for 3/8” for thickness = 200-225°F