

PRODUCT INFOSHEET: Duro-Glide® Enhanced UHMW #925 White

Duro-Glide® Enhanced White #925 is premier UHMW polymer containing a unique antioxidant that protects the material from degradation at extreme temperatures. This material grade is used in high temperature applications where normal UHMW fails. The enhanced material was designed to operate effectively under lower loads with a temperature range peaking at 275 °F.

PROPERTIES

Long-term Operating Temperature at Peak Range 275 °F (at lower loads) | FDA Compliant
Up to 10x Longer Life at Higher Temperatures than Standard Grade UHMW

INDUSTRY / APPLICATIONS

Bakeries (Bun Racks) | Food Industry | Packaging Industry | Chemical Industry Labs

COLOR

#925 White

CHARACTERISTICS AND STANDARD VALUES

Physical Properties	Method	SI Unit	SI Value
Density	ASTM D792 ISO 1183-1	g/cc g/cm ³	> 0.93 > 0.93
Abrasion (Sand-Slurry-Test rel. to GUR 4120 = 100%)	ISO 15527	% (Average)	80 (± 5%)
Notched Impact Strength	ISO 11542-2	mJ/mm ² kJ/m ²	> 100
Tensile Strength, Yield	ASTM D638 ISO 527-2	Psi MPa	> 2465 > 17
Break Elongation	ASTM D638 ISO 527-2	% %	> 350 > 50
Creep properties under varying compressive stress: Creep < 10%	Max.	Psi MPa	-- --
Coefficient of Friction, ASTM 1894 Metal= Rz 2,5 µ, Pm= 2 N/mm ² , V= 150 mm/min	Static Dynamic	µ µ	0.18 0.13
Shore-hardness, 3-s-value 6mm plate	ASTM D2240 ISO 868 / DIN 53505	D D	63 63
Water Absorption	--	%	< 0.1 (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	275 148
Coefficient of Linear Expansion	ASTM D696 DIN 53752	73 – 176 °F 23 – 80°C	≈ 1.1x10 ⁻⁴ /°F ≈ 2.0x10 ⁻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

Any suggestions or recommendations for the use of our products are based on tests believed to be reliable and on the independent judgment of our technicians. However, it is ultimately up to the Customer/End User to determine whether the product(s) provided by Duro-Glide® are suitable for the intended purpose or application. Duro-Glide® Polymer Sheets makes no warranty of fitness for a particular purpose, nor does it guarantee the results to be obtained. Nothing in this literature is intended as a recommendation to use our products so as to infringe on any patent.