

PRODUCT INFOSHEET: Duro-Glide® Enhanced UHMW #180 Glacier Black

Duro-Glide® Enhanced #180 Glacier Black is a unique UHMW polymer composition with a molecular weight of 3-4 million. This product is specifically designed to maximize slip and provide long-term stability in applications. It is 100% recyclable.

PROPERTIES

Excellent Gliding Properties | Low Coefficient of Friction | High Impact Strength
Stable at Low Temperatures | Light Weight | Low Odor (similar to paraffin wax)

COLOR

#180 Glacier Black

CHARACTERISTICS AND STANDARD VALUES

Physical Properties	Method	SI Unit	SI Value
Density	ASTM D792	g/cc	0.93
Abrasion (Sand-Slurry-Test rel. to GUR 4120 = 100%)	ISO 15527	% (Average)	100
Notched Impact Strength	ISO 11542-2	mJ/mm ² kJ/m ²	> 150
Tensile Strength, Yield	ISO 527-2	Psi	2700
Break Elongation	ISO 527-2	%	350
Coefficient of Friction, ASTM 1894 Metal= Rz 2,5 μ, Pm= 2 N/mm ² , V= 150 mm/min	Static Dynamic	μ μ	0.15 0.09
Shore-hardness, 3-s-value 6mm plate	ASTM D2240	D	63
Low Temperature Brittle Point	DSC	°F(°C)	-220 (-140)
Flammability	UL 94	--	HB Pass
Thermal Properties			
Melt Temperature	ASTM 3417 (DSC)	°F °C	275 – 278 135 – 137
Operation Temp. (Air), Max.	--	°F °C	176 80
Coefficient of Linear Expansion	ASTM D696	73 – 176 °F	≈ 1.1x10 ⁻⁴ /°F
Electrical Properties			
Surface Resistivity	ASTM D257 IEC 93	Ohm Ω	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.