

PRODUCT INFOSHEET: Duro-Glide® Enhanced UHMW #703 Gray

Duro-Glide® Enhanced #703 is a lube-filled UHMW polymer. The solid lube additive enhances the surface to increase non-stick/sliding properties. This grade is used most often in the food industry as it is FDA compliant for food industry use.

PROPERTIES

Noise Reduction | Good Abrasion Resistance | FDA Compliant | Lower Driving Power (Cost Effective) | Great for Dry Runs

INDUSTRY / APPLICATIONS

Conveyor Industry | Food Industry | Engineering Applications

COLOR

#703 Gray

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	> 120
Tensile Strength, Yield	ASTM D638 ISO 527-2	Psi MPa	> 2500 > 17
Break Elongation	ASTM D638 ISO 527-2	% %	> 350 > 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	0.16 0.10
Shore-hardness, 3-s-value 6mm plate	ASTM D2240 ISO 868 / DIN 53505	D D	62 62
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.	Short Time	°F °C	170 80
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.