



TSE-OK, L.L.C.

July 1, 2013

Product information

OK 2000 – W Gray # 703

OK 2000 – W gray # 703 is a wax filled UHMW polymer. The solid lube additive enhances the surface to increase (non-stick) sliding properties. This grade is used mostly 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

Color: Gray # 703

Application fields: Conveyor industry
 Food industry
 Engineering applications

The above data are based on the present knowledge and are given without guarantee.
Existing laws and conditions are to be respected by the user of our products.

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Physical Properties Data Sheet

OK 2000 – W Gray # 703

(UHMW – PE)

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
Operation temp., max.	Short time	°F °C	330 165
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

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