



TSE-OK, L.L.C.

July 1, 2013

Product information

OK 2000 - Blue # 589

OK 2000 - Blue # 589 is a UHMW polymer with 7-9 million molecular weight. The improved low coefficient of friction makes this material ideal for lining applications where sticking or caking creates a build-up of material. In such applications where there is a material flow problem - time and money are being lost. Our #589 formula will help you solve these problems.

Properties: Excellent sliding properties
 Low coefficient of friction
 Good notched impact strength
 No sticking or caking of bulk material
 Weldable

Color: Blue # 589

Application fields: Bulk goods handling
 Conveyor industry (earth moving equipment)
 Truck liners, hoppers, chutes,
 Rail road car liners
 Gypsum industry / Cement industry

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 - Blue # 589

(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	> 100
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	1150 8
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 ISO 868 / DIN 53505	D D	61 61
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	176 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

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