



TSE-OK, L.L.C.

July 1, 2013

Product information

OK 2000 - Blue # 588

OK 2000 - Blue # 588 is a UHMW polymer which has a molecular weight range of 7 – 9 million.

By adding a special filler we can improved the wear resistance to achieve longer life with low coefficient of friction.

It is designed as a lining material with superior quality and is ideal for material flow problems.

Properties: good sliding properties
 improved low coefficient of friction
 good notched impact strength

Color: Blue # 588

Application fields: Bulk goods handling
 Conveyor industry
 Earth moving conveyors
 Chutes, Hoppers, Silos, Buckets, etc.

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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4370 112th Terrace North, Clearwater, Florida 33762
WWW.TSE-OK.COM / E-Mail: SALES@TSE-OK.COM



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Physical Properties Data Sheet

OK 2000 - Blue # 588

(UHMW – PE)

Characteristics and standard values

Physical Properties	Method	SI Unit	SI Value
Density	ASTM D792 ISO 1183-1	g/cc g/cm ³	> 0.94 > 0.94
Abrasion (Sand-Slurry-Test rel. to GUR 4120 = 100%)	ISO 15527	% (Average)	75 (± 5%)
Notched impact strength	ISO 11542-2	mJ/mm ² kJ/m ²	> 140
Tensile strength, yield	ASTM D638 ISO 527-2	psi MPa	> 2500 > 17
Break elongation	ASTM D638 ISO 527-2	% %	>350 >350
Creep properties under varying compressive stress : Creep <10%	max.	psi MPa	3000 - 3100 20,7 – 21,3
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 0.12
Shore-hardness, 3-s-value 6mm plate	ASTM D2240 ISO 868 / DIN 53505	D D	69 69
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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