



## Product information

### OK 2000 - GB #675 Green

**OK 2000 - GB # 675** is enhanced with a glass filler which gives the UHMW sheet higher abrasion resistance than standard material. It offers excellent impact strength for tough applications.

**Properties:** extremely wear resistant  
good sliding properties  
good chemical resistance

low maintenance  
longer life time over standard UHMW

**Color:** Green # 675

**Application fields:** Machine construction  
conveyor industry  
agriculture & farming equipment  
waste water and filtration systems  
paper industry (wet box ends)  
chemical 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.

## TSE-OK, L.L.C.

## Physical Properties Data Sheet

### OK 2000 - GB #675 (UHMW - PE) Characteristics and standard values

Physical Properties	Method	SI Unit	SI Value
Density	ASTM D792	g/cc	> 0.95
	ISO 1183-A	g/cm <sup>3</sup>	> 0.95
Abrasion (Sand-Slurry-Test rel. to GUR 4120 = 100%)	ISO 15527	% (Average)	65 - 75
Notched impact strength	ISO 11542-2	mJ/mm <sup>2</sup> kJ/m <sup>2</sup>	> 120
Tensile strength, yield	ASTM D638	psi	> 2610
	ISO 527-2	MPa	> 18
Break elongation	ASTM D638	%	> 50
	ISO 527-2	%	> 50
Coefficient of friction, ASTM 1894 metal= Rz 2,5 μ, Pm= 2 N/mm <sup>2</sup> , V= 150 mm/min	Static	μ	0.14
	Dynamic	μ	0.09
Shore-hardness, 3-s-value 6mm plate	ASTM D2240	D	69 - 70
	ISO 868 / DIN 53505	D	69 - 70
Water absorption	---	%	< 0.1 (Nil)
Creep properties under varying compressive stress : Creep ~ 10%	max.	psi MPa	3000 - 3100 20,7 - 21,3
Flammability	UL 94	---	HB
<b>Thermal Properties</b>			
Melt temperature	ASTM 3417 (DSC)	°F	275 - 278
	ISO 3146 (DSC)	°C	135 - 137
Permanent operation temp., max.	---	°F	176
		°C	80
Coefficient of linear expansion	ASTM D696 DIN 53752	73 - 176 °F	≈ 1.1x10 <sup>-4</sup> /°F
		23 - 80°C	≈ 2.0x10 <sup>-4</sup> /°C
<b>Electrical Properties</b>			
Surface resistivity	ASTM D257 IEC 93	Ohm	> 10 <sup>14</sup>
		Ω	> 10 <sup>14</sup>
Volume resistivity	ASTM D257 IEC 93	Ohm * cm	> 10 <sup>14</sup>
		Ω * cm	> 10 <sup>14</sup>

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