



TSE-OK, L.L.C.

July 1, 2013

Product information

OK 1000 – Reprocessed Black Marble

OK 1000 – Reprocessed Marble Black # 90 is a black UHMW with multi-colored particles of reground UHMW-PE polymer.

Properties: Good gliding properties
 Economical and Effective
 Seawater resistance

Color: black – multi-colored

Application fields: Fender Pads
 Marine

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 1000 – Reprocessed Black Marble (UHMW – PE – repro) 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)	130 - 150
Notched impact strength	ISO 11542-2	mJ/mm ² kJ/m ²	> 70
Tensile strength, yield	ASTM D638 ISO 527-2	psi MPa	> 2610 > 18
Break elongation	ASTM D638 ISO 527-2	% %	50 - 250 > 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	~ 0.20 ~ 0.18
Shore-hardness, 3-s-value 6mm plate	ASTM D2240 ISO 868 / DIN 53505	D D	64 - 67 64 - 67
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 Ω	< 10 ¹⁴ < 10 ¹⁴

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