



SPECIFICATION SHEET

UHMW – PE OK 1000

virgin black No. 901

FDA-Compliant 21 CFR 178.3297

Characteristics and standard values

Properties	Method	SI Unit	SI Value
Density	ASTM D792	g/cc	0.93
	ISO 1183-A	g/cm ³	0.93
Abrasion – Internal method acc. to (Slurry-test rel. to GUR4120=100%)	DIN 58836	%	100
Tensile strength, yield	ASTM D638	psi	2200 – 2900
	ISO 527	MPa	15 – 20
Break elongation	ASTM D638 ISO 527	%	>250
		%	>50
Creep properties under varying compressive stress : Creep <10% in 7 days – (20°C)	max.	psi	1450
		MPa	10
Coefficient of friction, ASTM 1894 metal= Rz 2,5 µ, Pm= 2 N/mm ² , V= 150 mm/min	Static Dynamic	µ	0.18
		µ	0.13
Shore-hardness, 3-s-value 6mm plate	ASTM D2240 ISO 868	D	63
		D	63
Water absorption		%	< 0.1 (Nil)
Thermal Properties			
Melt temperature	ASTM 3417 ISO 3146	°F	275 - 278
		°C	135 - 137
Permanent operation temp., max.		°F	176
		°C	80
Coefficient of linear expansion	ASTM D696 DIN 53752	73 – 176 °F	≈ 1.1x10 ⁻⁴ /°F
		23 – 80°C	≈ 2.0x10 ⁻⁴ /°C
Electrical Properties			
Volume resistivity	ASTM D257 IEC 93	Ohm-cm	< 10 ¹⁴
		Ω*cm	< 10 ¹⁴

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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sheet and finished products

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