

	Method	Unit	HMPE 500	UHMPE 1000
Colour	-	-	White, Black, Color	White, Black, Color
Specific Gravity	ISO-1183-1	g/cm3	0,96	0,93
Water absorption	ISO 62 24/96 hr *	%	-	-
	Saturation in air 23°C 50% RH	%	-	-
	Saturation in water 23°C	%	-	-
Coefficient of thermal expansion	ISO 11357 **	m(m.K)	180*10-6	180*10-6
Thermal conductivity @ 23°C	-	W(K.m)	0,4	0,4
Max Service temperature 5000 h	-	°C	80	80
Min. Service temperature	-	°C	-100	-250
Tensile strength	ISO 527	Mpa	27	20
Tensile strain at yield	ISO 527	%	-	-
Tensile module of elasticity	ISO 527	MPa	1200	680
Charpy impact test notched	ISO 179-1	kJ/m2	NB	NB
Shore hardness	ISO 2039-2	-	65D	63D
Electric Strength	IEC 60243-1	kV/mm	45	45
Volume resistivity	IEC 60093	Ohm.cm	10exp14	10exp14

* immersion in water of 23°C

** average value between 23 and 60 °C

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