

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

\* immersion in water of 23°C

\*\* average value between 23 and 60 °C

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