

	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

The following information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our advice concerning safety does not release you from the obligation to determine the safety measures designed for your production environment, that we may not be able to anticipate, to check abilities and to inform the people who will use, handle or be in contact with these products.

Subject to change without notice



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