

Solutions in Plastics

PE-UHMW PLASTICS

PRODUCT INFORMATION - SPECIFICATIONSHEET PE 2000 - GB No. 675 + 983 + 820

Multilene® PE 2000 – GB is enhanced with a glass filler which gives the UHMW-PE (9,2 mio. g/mol) a higher abrasion resistance than standard material. It offers excellent impact strength for tough applications. The 983 is colored black for out door use and is UV-stabilized.

Properties:	extremely wear resistant good sliding properties good chemical resistance BfR approved
	low maintenance Ionger life time over standard UHMW PE
Color:	green675black983dark brown820
Application fields:	Machine construction conveyor industry agriculture, farming equipment waste water and filtration systems paper industry (wet section of a paper machine)

Characteristics and standard values

	METHOD	UNITS	VALUE
PHYSICAL PROPERTIES	· · · · · · · · · · · · · · · · · · ·		
Density	ISO 1183-A	g.cm ³	0,95
Abrasion (Sand-Slurry-Test)	internal method	%	65
Notched Impact Stength (Charpy)	ISO 11542-2	mJ/mm ²	>120
Tensile strength	ISO 527	N/mm ²	>18
Break elongation	ISO 527	%	>50
Creep properties under varying compressive stress < 10 % in 7 days	max.	N/mm ²	11
Coefficient of friction	ASTM 1894	static <i>µ</i> dynamic <i>µ</i>	0.14 0.09
Shore-Hardness	ISO 868	D	65
Water absorption		%	< 0.1
THERMAL PROPERTIES			
Melt point DSC	ISO 3146	°C	135 - 137
Permanente operation temperature, max.	-	°C	80
Coefficient of linear expansion	ISO 11359	23 - 80°C	≈ 2.0 x 10 ⁻⁴ /°C

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.



Solutions in Plastics

	METHOD	UNITS	VALUE	
ELECTRICAL PROPERTIES				
Volume resistivity	IEC 60093	Ω*cm	≤ 10 ¹⁴	
Surface resistivity	IEC 60093	Ω	≤ 10 ¹³	
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.

sheet and finished products



This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.

www.solutions-in-plastics.info