

PE-UHMW PLASTICS

PRODUCT INFORMATION - SPECIFICATIONSHEET PE 2000 - blue 588

Multilene® PE 2000 - blue 588 is a UHMW-PE (9,2 mio. g/mol). By adding a special filler we can improve the wear resistance to achieve an even better coefficient of friction. It is designed as a lining material with superior quality, and therefore, is ideal for material flow problems.

Properties:

- good sliding properties
- improved low coefficient of friction
- good notched impact strength
- very good wear resistant
- BfR approved (LII)

Color: blue no. 588

Application fields:

- bulk goods handling
- conveyor industry
- earth moving conveyors
- chuts, hoppers, silos, buckets etc.

Characteristics and standard values

	METHOD	UNITS	VALUE
PHYSICAL PROPERTIES			
Density	ISO 1183-A	g.cm ³	0,94
Abrasion (Sand-Slurry-Test)	internal method	%	74
Notched Impact Stength (Charpy)	ISO 11542-2	mJ/mm ²	>120
Tensile strength	ISO 527	N/mm ²	>17
Break elongation	ISO 527	%	>50
Creep properties under varying compressive stress < 10 % in 7 days	max.	N/mm ²	10
Coefficient of friction	ASTM 1894	static μ dynamic μ	0.16 0.12
Shore-Hardness	ISO 868	D	64
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	$\approx 2.0 \times 10^{-4} / ^\circ\text{C}$
ELECTRICAL PROPERTIES			
Volume resistivity	IEC 60093	$\Omega \cdot \text{cm}$	$\leq 10^{14}$
Surface resistivity	IEC 60093	Ω	$\leq 10^{13}$

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.