

PE-UHMW PLASTICS

PRODUCT INFORMATION - SPECIFICATIONSHEET PE 2000 - MO No. 962

Multilene® PE 2000 – MO No. 962 is a UHMW Polymer (9,2 Mio. g/mol) with high abrasion resistance and excellent sliding properties. Because of the low coefficient of friction this material allows even lower transmission power.

Properties: extremely wear resistant
 excellent sliding properties
 good chemical resistance
 low maintenance
 longer life time over standard UHMW PE

Color: dark grey colored no. 962

Application fields: conveying industry
 machine construction

Characteristics and standard values

	METHOD	UNITS	VALUE
PHYSICAL PROPERTIES			
Density	ISO 1183-A	g.cm ³	0,95
Abrasion (Sand-Slurry-Test)	internal method	%	80
Notched Impact Stength (Charpy)	ISO 11542-2	mJ/mm ²	>100
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	0.11 0.08
Shore-Hardness	ISO 868	D	63
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