

## PE-UHMW PLASTICS

### PRODUCT INFORMATION - SPECIFICATIONSHEET PE 2000 - Blue 589

**Multilene®** PE 2000 - Blue 589 is a UHMW-PE polymer (9,2 mio. g/mol). By adding a special filler, our material is able to with stand higher temperatures and still hold up its abrasion resistance. The improved low coefficient of friction (non-stick surface) makes this material ideal for lining applications where sticking or caking creates a build up of material. In such application where there is a material flow problem, time and money is at a loss. Our UHMW PE liner will help you solve these problems.

**Properties:**

- excellent sliding properties
- low coefficient of friction
- good notched impact strength
- no sticking or caking of bulk materials
- higher temperature
- can be welded!
- UV-stabilized

**Color:** blue no. 589

**Application fields:**

- bulk goods handling
- conveyor industry (earth moving equipment)
- truck liners
- gypsum industry / cement industry

### Characteristics and standard values

	METHOD	UNITS	VALUE
<b>PHYSICAL</b>			
Density	ISO 1183-A	g.cm <sup>3</sup>	0,93
Abrasion (Sand-Slurry-Test)	internal method	%	80
Notched Impact Strength (Charpy)	ISO 11542-2	mJ/mm <sup>2</sup>	>100
Tensile strength	ISO 527	N/mm <sup>2</sup>	>17
Break elongation	ISO 527	%	>50
Coefficient of friction	ASTM 1894	static $\mu$	0.15
		dynamic $\mu$	0.09
Shore-Hardness	ISO 868	D	61
Water absorption		%	< 0.1
<b>THERMAL PROPERTIES</b>			
Coefficient of linear expansion	ISO 11359	23 - 80°C	$\approx 2.0 \times 10^{-4} / ^\circ\text{C}$
Operation temperature	-	°C	-40 bis 80°C

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.