

Technical Data Sheet

PE500 Sheet

Black/Green / Red / Blue / Yellow / Natural / Burgundy

PE500 is a versatile, food compliant material available in a wide range of colours. It's unique properties include a low coefficient of friction, high impact strength and abrasion resistance. PE500 has a wide operating temperature of -80°C to +80°C.



product information

Name: High Molecular Weight Polyeth-

ylene

Other names:

Abbreviation: PE500

key characteristics

Economical alternative to PE 1000

Excellent wear and abrasion resistance

Good noise dampening properties

Food compliant

applications

Cutting boards

Chutes

Liners

Food processing

Chain parts

We also offer PE300.



Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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PE500 Sheet

Physical Properties

- 1. Specific gravity
- 2. Water absorption saturation 23°C
- 3. Maximum service temp. Upper temp limit (no stronger mechanical stress involved) Lower temp limit

Mechanical Properties

- 1. Tensile strength at yield
- 2. Elongation at yield
- 3. Abrasion (sand slurry test)
- 4. Elongation
- 5. Impact strength
- 6. Notch impact strength
- 7. Ball Indentation
- 8. Shore-D
- 9. Modulus of elasticity

Thermal Properties

- 1. Vicat-softening point
- 2. Coefficient of linear thermal expansion
- 3. Thermal conductivity

Electrical Properties

- 1. Surface resistivity
- 2. Dielectric strength

Additional Data

- 1. Bondability
- 2. Food compliance
- 3. Flammability

Test

Test	Unit	Result
ISO 1183	g/cm³	0.96
-	%	0.01
Short Term	°C	120
Long Term	°C	80
	0.0	0.0

Unit

Test Unit Result

	• • • • • • • • • • • • • • • • • • • •	
ISO 527	Mpa	>28
ISO 527	%	8
ISO 527	%	>200
ISO 527	%	7650
ISO 179	kJ/m²	no break
ISO 179	kJ/m²	25
ISO 2039-1	Mpa	50
DIN 53505	- 1	63/65

Mpa

1100

Result

Result

Result

Test Method Unit

ISO 527

ISO 306	°C	80	
ISO 11359	%-1	1.5-2 10 ⁻⁴	
DIN 52612	W/(m*K)	>0.4	

Test Method Unit

IEC 6093	0	10 ¹⁴
	ls) //papa	150
IEC 60243	kV/mm	150

Test Method Unit

-	-	-
FDA	-	+
UL94	-	HB

All The above information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.

> Key Yes Limited No or no data



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