



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.

www.epdm.co.uk
E-Mail: Sales@epdm.co.uk

Contact

Telephone: +44 (0)1625 573971
FAX: +44 (0)1625 573250
Munsch & Co/PTM Ltd
Units AG2/3 Clarence Mill
Clarence Road, Bollington
Macclesfield, Cheshire
SK10 5JZ
United Kingdom





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

ISO 1183 a/cm³ % °C **Short Term** Long Term

°C °C

Unit

0.96 0.01 120 80 -80

>28

>200

7650

no break

Result

1.5-2 10⁻⁴

Result

>0.4

Result

Unit **Test** Result

- ISO 527 Mpa ISO 527 % ISO 527 % % ISO 527 ISO 179 kJ/m² kJ/m² ISO 179
- 25 ISO 2039-1 50 Mpa DIN 53505 63/65 ISO 527 Mpa 1100

Test Method Unit

ISO 306 °C %-1 ISO 11359 DIN 52612 W/(m*K)

Test Method Unit

10¹⁴ IEC 6093 IEC 60243 kV/mm 150

Test Method Unit Result

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.

> Kev Yes

Limited

No or no data

0



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