



Technical Data Sheet

Nylon 6 Sheet & Rod

Natural / Black

Cast polyamide produced by direct polymerisation. Due to its casting process, this material is available in almost any size of sheet, rod and tube, as well as the ability to be custom cast to specific shapes. Furthermore, it is possible to modify product formulation with various additives to enhance performance and to suit applications.



Name: Nylon 6

Other names: Ertalon 6SA, Centromid 6 E

Abbreviation: PA 6, Polyamide



- General purpose grade
- Favourable electrical insulating ability
- Available in smaller diameters
- Excellent wear resistance
- Food compliant

applications

- Gears
- Bushes
- Washers
- Spacers
- Rollers
- Wearstrips & Guides



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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United Kingdom





Result

Result

Result

0.9

0.28

10¹³

3.3

30

600

Result

0.021

Result

76

Nylon 6 Sheet & Rod

Test

ISO 527-2

ISO 306

ISO 75-2

ISO 11359

DIN 52612

VDE 0303

IEC 6093

IEC 60250

IEC 60250

VDE 0303

IEC 60112

Physical Properties

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

Test Unit

ISO 1183 a/cm³ 1.14 **ISO 62** % °C 160 **Short Term** °C Long Term 85 °C -40

Unit

Mpa

Mechanical Properties

- 1. Tensile stress at yield
- 2. Elongation at yield
- 3. Tensile strength at break
- 4. Elongation at break
- 5. Impact strength
- 6. Notch impact strength
- 7. Ball Indentation/Rockwell hardness
- 8. Shore-D
- 9. Flexural modulus of elasticity
- 10. Tensile modulus of elasticity

ISO 527-2 ISO 527-2 Mpa ISO 527-2 >50 ISO 179/1eU kJ/m² no break ISO 179/1eA kJ/m² 5.5 ISO 2039-1/-2 150/M85 Mpa

ISO 178 Mpa 3250 ISO 527 Mpa

°C

°C K⁻¹ x10⁻⁴

W/(m*K)

 $\Omega \times m$

10⁶ Hz

kV/mm

0

Thermal Properties

- 1. Vicat-softening point VST/B/50
- 2. Heat deflection temperature HDT/A
- 3. Coefficient of linear thermal expansion
- 4. Thermal conductivity at 23 °C

- 1. Volume resistivity
- 2. Surface resistivity

- 5. Dielectric strength
- 6. Comparative tracking index (CTI)

Electrical Properties

Additional Data

1. Bondability 2. Food compliance 3. Flammability

3. Dielectric constant at 1MHz 4. Dielectric dissipation factor at 1 MHz

Test Method Unit

Test Method Unit

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
+	0	_



UK GASKET & SEALING

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