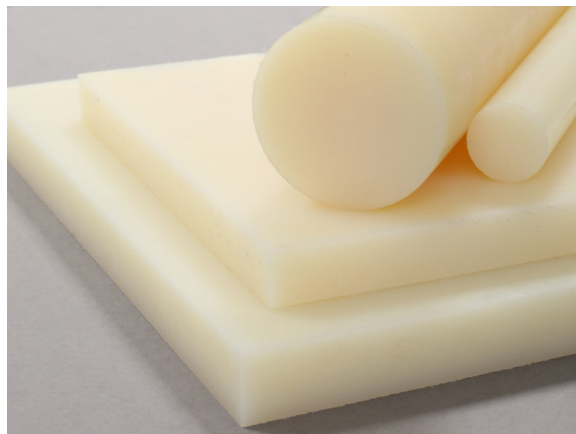


Technical Data Sheet

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.



product information

Name: Nylon 6
Other names: Ertalon 6SA, Centromid 6 E
Abbreviation: PA 6, Polyamide

key characteristics

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

applications

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

PLASTICS



Certificate Number: 14352
ISO 9001



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
PTM Ltd
Units AG2/3 Clarence Mill
Clarence Road, Bollington
Macclesfield, Cheshire
SK10 5JZ
United Kingdom

Nylon 6 Sheet & Rod

Physical Properties	Test	Unit	Result
1. Specific gravity	ISO 1183	g/cm ³	1.14
2. Water absorption	ISO 62	%	9
3. Maximum service temp. Upper temp limit (no stronger mechanical stress involved)	Short Term	°C	160
Lower temp limit	Long Term	°C	85
	-	°C	-40

Mechanical Properties	Test	Unit	Result
1. Tensile stress at yield	ISO 527-2	Mpa	76
2. Elongation at yield	ISO 527-2	%	-
3. Tensile strength at break	ISO 527-2	Mpa	-
4. Elongation at break	ISO 527-2	%	>50
5. Impact strength	ISO 179/1eU	kJ/m ²	no break
6. Notch impact strength	ISO 179/1eA	kJ/m ²	5.5
7. Ball Indentation/Rockwell hardness	ISO 2039-1/-2	Mpa	150/M85
8. Shore-D	-	-	-
9. Flexural modulus of elasticity	ISO 178	Mpa	-
10. Tensile modulus of elasticity	ISO 527	Mpa	3250

Thermal Properties	Test Method	Unit	Result
1. Vicat-softening point VST/B/50	ISO 306	°C	-
2. Heat deflection temperature HDT/A	ISO 75-2	°C	-
3. Coefficient of linear thermal expansion	ISO 11359	K ⁻¹ x 10 ⁻⁴	0.9
4. Thermal conductivity at 23 °C	DIN 52612	W/(m*K)	0.28

Electrical Properties	Test Method	Unit	Result
1. Volume resistivity	VDE 0303	Ω x m	-
2. Surface resistivity	IEC 6093	Ω	10 ¹³
3. Dielectric constant at 1MHz	IEC 60250	-	3.3
4. Dielectric dissipation factor at 1 MHz	IEC 60250	10 ⁶ Hz	0.021
5. Dielectric strength	VDE 0303	kV/mm	30
6. Comparative tracking index (CTI)	IEC 60112	-	600

Additional Data	Test Method	Unit	Result
1. Bondability	-	-	-
2. Food compliance	FDA	-	+
3. Flammability	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	-

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

Contact

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



Certificate Number: 14352
ISO 9001



www.epdm.co.uk

E-Mail: Sales@epdm.co.uk