

Technical Data Sheet

Nylon 6 Sheet & Rod - Cast

Oil Filled

Nylon 6 Cast (Modified) nylon 6 of green / yellow: internally lubricated with mineral oil filler, which improves friction coefficient by up to 50%, and wear resistance tenfold.

Moisture absorption is significantly improved. Ideally suited for more arduous tasks, such as high load, slow speed and dry running applications where standard nylon 6 would not perform effectively. Due to its lower coefficient of friction and the resulting improved heat build-up in sliding applications, nylon 6 of can operate with higher loads and speeds than other thermoplastics.



product information

Name: Cast Polyamide 6

Other names: Ertalon 6 PLA Abbreviation: Nylon 6 Cast

Key characteristics

- Better lubrication than MoS2
- Self lubricating
- High loaded and slow moving parts
- Reduced coefficient of friction up to 50%
- Better wear resistance

Applications

- Chain guides
- Bearings
- Wear pads
- Cams
- Conveyor parts
- Gears



UK GASKET & SEALING

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 - Cast

Oil Filled

Physical Properties	Test	Unit	Result
Specific gravity Water absorption till saturation 23° C Maximum service temp. Upper temp limit (no stronger mechanical stress involved) Lower temp limit	ISO 1183 - Short Term Long Term -	g/cm³ % °C °C °C	0.93 6.3 165 105 -20

PLASTICS

Mechanical Properties	Test	Unit	Result
Tensile strength at yield	ISO 527-1/-2	Мра	72/-
2. Elongation at yield	-	%	-
Tensile strain at break	ISO 527-1/-2	%	25
4. Unotched impact strength	ISO 179-1/1eU	kJ/m²	50
5. Notch impact strength	ISO 179-1/1eA	kJ/m²	4
6. Unotched impact strength	ISO 179-1/1eU	kJ/m²	50
7. Ball indentation / Rockwell hardness	ISO 2039-1/-2	Mpa	145/M82
8. Shore-D	DIN 53505	- 1	-
Flexural modulus of elasticity	-	Mpa	-
10. Tensile modulus of elasticity	ISO 527-1/-2	Mpa	3000

Thermal Properties

•			
1. Vicat-softening point VST/B/50	-	°C	-
2. Heat deflection temperature HDT/A	ISO 75-1/-2	°C	75
3. Coefficient of linear thermal expansion 23 - 100°C	-	m/(m.K)	90x10 ⁻⁶
4. Thermal conductivity at 23 °C	-	W/(m*K)	0.28

Electrical Properties

Volume resistivity Surface resistivity	IEC 6093 IEC 6093	Ω x m
3. Dielectric constant at 1MHz	-	-
4. Dielectric dissipation factor at 1 MHz	IEC 60250	10 ⁶ Hz
5. Electrical strength	IEC 60243-1	kV/mm
Comparative tracking index (CTI)	IEC 60112	-
Additional Data	Test Method	Unit
1 Bondahility	_	_

- Bondability
 Food compliance
- 3. Flammability

IEC 60112	-	600
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.

Key		
Yes	Limited	No or no data
+	0	_

Test Method Unit

Test Method Unit





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

Result

Result

> 10¹⁴ > 10¹³ -0.016 22

United Kingdom