Munsch & Co "Keeping You Working"

PTFM SEALING YOUR FUTURE

PLASTICS

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

ISOQAR REGISTERED UKAS MANAGEMENT SYSTEMS 0026

Certificate Number: 14352
ISO 9001

UK GASKET & SEALING ASSOCIATION

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

Munsch & Co "Keeping You Working"

PTFM SEALING YOUR FUTURE

PLASTICS

Nylon 6 Sheet & Rod - Cast

Oil Filled

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

Mechanical Properties	Test	Unit	Result
1. Tensile strength at yield	ISO 527-1/-2	Mpa	72/-
2. Elongation at yield	-	%	-
3. 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	-	-
9. Flexural modulus of elasticity	-	Mpa	-
10. Tensile modulus of elasticity	ISO 527-1/-2	Mpa	3000

Thermal Properties	Test Method	Unit	Result
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	Test Method	Unit	Result
1. Volume resistivity	IEC 6093	Ω x m	$> 10^{14}$
2. Surface resistivity	IEC 6093	Ω	$> 10^{13}$
3. Dielectric constant at 1MHz	-	-	-
4. Dielectric dissipation factor at 1 MHz	IEC 60250	10^{6} Hz	0.016
5. Electrical strength	IEC 60243-1	kV/mm	22
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	-

ISOQAR REGISTERED UKAS MANAGEMENT SYSTEMS 0026

Certificate Number: 14352
ISO 9001

UK GASKET & SEALING ASSOCIATION

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