

Technical Data Sheet NYLATRON® GSM

Black

Nylatron® GSM contains finely divided particles of molybdenum disulphide to enhance its bearing and wear behaviour without impairing the impact and fatigue resistance inherent to unmodified cast nylon grades.

product information

Name:Nylatron® GSMCategories:Polymer; Thermoplastic; Nylo; Nylon 6; Nylon 6MoS2 FilledPA 6, Polyamide

key characteristics

- High mechanical strength, stiffness, hardness and toughness
- Good fatigue resistance
- High mechanical damping ability
- Good sliding properties
- Excellent wear resistance
- Good electrical insulating properties
- Good resistance to high energy radiation (gamma- and X-rays)
- Good machinability

applications

- Gears
- Bushes
- Bearings
- Sheaves
- Sprockets

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

Certificate Number: 14352



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



NYLATRON® GSM

	 Physical Properties 1. Specific gravity 2. Water absorption 3. Maximum service temp. (Air) 4. Melting point 	Test ASTM D792 ASTM D570 (2) Long Term ASTM D3418	Unit g/cc °C °C	Result 1.16 0.6 93.3 216
	Mechanical Properties	Test	Unit	Result
PLA	 Tensile strength Tensile strength @ 65°C Shear strength Elongation at break Izod Impact. Notched Compressive strength (10% deflection) Compressive modulus Shore-D Flexural strength Flexural modulus Coefficient of friction. Dynamic Limiting pressure velocity 4:1 safety factor 	ASTM D638 ASTM D638 ASTM D256-A ASTM D638 ASTM D695 ASTM D695 ASTM D695 ASTM D2240 ASTM D790 QTM55007 QTM55007	Mpa Mpa J/cm % J/cm Mpa Gpa - Mpa Gpa Dry vs Steel Mpa-m/sec	75.8 41.4 0.267 30 0.267 96.5 2.76 85 110 3.45 0.20 0.105
	Thermal Properties	Test Method	Unit	Result
	1. CTE. Liner	ASTM E831	µm/m-°C	90.0
_	Electrical Properties	Test Method	Unit	Result
$\overline{\mathbf{O}}$	 Surface resistivity per square Dielectric constant 	EOS/ESD S11.11 ASTM D150	Ω -	>=1.00e+13 3.7
S	Additional Data 1. Bondability 2. Food compliance 3. Flammability (Estimated rating)	Test Method FDA UL94	Unit - - -	Result - - 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



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

Limited

0

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

No or no data