

Product Texts

Genestar N1002A-M41 Black is a PTFE-lubricated, low friction injection molding grade provided as pellets.

Main feature of N1002A-M41 are:

- A low friction coefficient
- Low wear
- performance at high temperatures

Examples of application are:

- Friction and wear application
- Gears

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.4	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.5	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2560	MPa	ISO 527
^[C] Yield stress	80	MPa	ISO 527
^[C] Yield strain	6	%	ISO 527
^[C] Charpy impact strength, +23°C	5	kJ/m ²	ISO 179/1eU

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	300	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	125	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	66	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	67	E-6/K	ASTM D 696

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.25	%	Sim. to ISO 62
^[C] Density	1170	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Black

Features

Barrier Properties, Creep Resistance, Fatigue Resistance, High Crystallinity, Thermal Stability, Tribologic Grade, Weldable

Chemical Resistance

Acid Resistance, Alkali Resistance, General Chemical Resistance, Environmental Stress Crack Resistance, Solvent Resistance, Grease Resistance, Hydrolytically Stable, Oil Resistance

Additives

Lubricants, Release agent

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive, General Purpose

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa