

**Product Texts**

Genestar N1000A-M41 (Black, Natural) is standard, unreinforced injection molding grade provided as pellets..

The main features are:

- Mechanical properties at high temperature
- Low water absorption and retention of its initial properties

This grade is suitable for:

- Friction and wear application
- Gears
- Parts in harsh chemical and thermal environments

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

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2720	MPa	ISO 527
<sup>[C]</sup> Yield stress	85	MPa	ISO 527
<sup>[C]</sup> Yield strain	4	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	5	kJ/m <sup>2</sup>	ISO 179/1eU

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	300	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	125	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2

**ASTM Data**

Coefficient of Thermal Expansion, MD	62	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	60	E-6/K	ASTM D 696

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.25	%	Sim. to ISO 62
<sup>[C]</sup> Density	1140	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Delivery form**

Black, Natural Color

**Features**

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

**Chemical Resistance**

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

**Additives**

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