

**Product Texts**

Genestar N1001A-M41 (Black, Natural) is a toughened, low friction injection molding grade provided as pellets. The main features are:

- a Low friction coefficient
- High impact strength and enhanced ductility

This grade is suitable for:

- Friction and wear application
- cable ties
- quick connectors

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	2420	MPa	ISO 527
<sup>[C]</sup> Yield stress	80	MPa	ISO 527
<sup>[C]</sup> Yield strain	7	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	9	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	120	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	65	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	68	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	1110	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Delivery form**

Black, Natural Color

**Additives**

Lubricants, Release agent

**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

**Special Characteristics**

High impact or impact modified, Heat stabilized or stable to heat

**Applications**

Automotive, General Purpose

**Regional Availability**

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