

**Product Texts**

Genestar GC1201A-M41 Black is a reinforced injection grade for conductive applications.

Main features of GC1201A-M41 are:

- Conductivity
- Heat resistance
- Chemical resistance

Examples of application are:

- Quick connector

| Processing/Physical Characteristics        | Value | Unit | Test Standard   |
|--|-------|------|-----------------|
| <b>ISO Data</b>                            |       |      |                 |
| <sup>[C]</sup> Molding shrinkage, parallel | 0.2   | %    | ISO 294-4, 2577 |
| <sup>[C]</sup> Molding shrinkage, normal   | 0.7   | %    | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties                                | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                                      |       |                   |               |
| <sup>[C]</sup> Tensile Modulus                       | 10900 | MPa               | ISO 527       |
| <sup>[C]</sup> Stress at break                       | 170   | MPa               | ISO 527       |
| <sup>[C]</sup> Strain at break                       | 3     | %                 | ISO 527       |
| <sup>[C]</sup> Charpy notched impact strength, +23°C | 12    | kJ/m <sup>2</sup> | ISO 179/1eA   |

[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 | 265   | °C   | ISO 75-1/-2    |

**ASTM Data**

|                                      |    |       |            |
|--------------------------------------|----|-------|------------|
| Coefficient of Thermal Expansion, MD | 16 | E-6/K | ASTM D 696 |
| Coefficient of Thermal Expansion, TD | 39 | E-6/K | ASTM D 696 |

[C]: CAMPUS

| Other properties                | Value | Unit              | Test Standard  |
|---------------------------------|-------|-------------------|----------------|
| <sup>[C]</sup> Water absorption | 0.19  | %                 | Sim. to ISO 62 |
| <sup>[C]</sup> Density          | 1220  | kg/m <sup>3</sup> | ISO 1183       |

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Delivery form**

Black

**Additives**

Release agent

**Special Characteristics**

Increased electrical conductivity, High impact or impact modified, Heat stabilized or stable to heat

**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

**Applications**

Automotive, General Purpose

**Regional Availability**

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