

Kuraray Genestar[®],ç G1301A-M61 Nylon, 30% Glass Filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

30% Glass reinforced and impact modified injection grade. Main Features: Higher elongation and impact strength Heat resistance Chemical resistance Example of applications: Quick connector

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Genestar-G1301A-M61-Nylon-30-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|---------------------------|-----------------|
| Specific Gravity | 1.34 g/cc | 1.34 g/cc | |
| Density | 1.34 g/cc | 0.0484 lb/in ³ | ISO 1183 |
| Water Absorption | 0.19 % | 0.19 % | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm | 0.0030 in/in | ISO 294-4, 2577 |
| Linear Mold Shrinkage, Transverse | 0.0090 cm/cm | 0.0090 in/in | ISO 294-4, 2577 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|-----------------|
| Tensile Strength at Break | 175 MPa | 25400 psi | ISO 527-1/-2 |
| Elongation at Break | 3.0 % | 3.0 % | ISO 527-1/-2 |
| Tensile Modulus | 8.98 GPa | 1300 ksi | ISO 527-1/-2 |
| Flexural Strength | 250 MPa | 36300 psi | ISO 178 |
| Flexural Modulus | 8.20 GPa | 1190 ksi | ISO 178 |
| Charpy Impact, Notched | 1.70 J/cm ² | 8.09 ft-lb/in ² | ISO 179/1eA |
| Coefficient of Friction | 0.30 | 0.30 | ISO JIS K7218-A |
| K Factor (Wear Factor) | 15 | 15 | [mg] |
| Limiting Pressure Velocity | 0.980 MPa-m/sec | 28000 psi-ft/min | |

| Thermal Properties | Metric | English | Comments |
|---|----------------|------------------|---------------------------|
| CTE, linear, Parallel to Flow | 20.0 Åµm/m-Å°C | 11.1 Åµin/in-Å°F | ASTM D696 |
| CTE, linear, Transverse to Flow | 46.0 Åµm/m-Å°C | 25.6 Åµin/in-Å°F | ASTM D696 |
| Melting Point | 300 Å°C | 572 Å°F | 10Å°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 1.8 MPa (264 psi) | 270 Å°C | 518 Å°F | ISO 75-1/-2 |

| | | | |
|--|--------------------------|---------|--|
| Thermal Properties <small>mp, Tg</small> | Metric <small>°C</small> | English | Comments <small>ISO 11357-1/-2</small> |
|--|--------------------------|---------|--|

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

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|-------------------------|---------------------------------------|--|
| Additives | Lubricants | |
| | Release Agent | |
| Applications | Automotive | |
| | General Purpose | |
| Chemical Resistance | Acid Resistance | |
| | Alkali Resistance | |
| | Environmental Stress Crack Resistance | |
| | General Chemical Resistance | |
| | Grease Resistance | |
| | Hydrolytically Stable | |
| | Oil Resistance | |
| | Solvent Resistance | |
| Delivery Form | Black | |
| Other Features | Barrier Properties | |
| | Creep Resistance | |
| | High Crystallinity | |
| | Low Coefficient of Friction | |
| | Thermal Stability | |
| | Weldable | |
| Regional Availability | Asia Pacific | |
| | Europe | |
| | Near East/Africa | |
| | North America | |
| | South and Central America | |
| Special Characteristics | Heat Stabilized or Stable to Heat | |

| Descriptive Properties | High Impact or Impact Modified Value | Comments |
|------------------------|--------------------------------------|----------|
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