

# Genestar™ GT2330

Polyamide 9T

Kuraray Co., Ltd.

## Message:

GT2330 is well suited for components requiring a high strength in pin fitting process, due to high ductility properties.

| General Information    |                                    |
|------------------------|------------------------------------|
| UL YellowCard          | E90350-316412                      |
| Filler / Reinforcement | Glass Fiber,33% Filler by Weight   |
| Features               | Good Toughness                     |
|                        | High Strength                      |
| Uses                   | Electrical Parts                   |
|                        | Electrical/Electronic Applications |

| Physical                                                 | Nominal Value | Unit              | Test Method |
|----------------------------------------------------------|---------------|-------------------|-------------|
| Specific Gravity                                         | 1.58          | g/cm <sup>3</sup> |             |
| Melt Mass-Flow Rate (MFR) (320°C/2.16 kg)                | 15            | g/10 min          | ASTM D1238  |
| Molding Shrinkage                                        |               |                   |             |
| Flow : 1.00 mm                                           | 0.10          | %                 |             |
| Across Flow : 1.00 mm                                    | 0.60          | %                 |             |
| Water Absorption <sup>1</sup> (Equilibrium, 40°C, 95%RH) | 1.0           | %                 |             |
| Mechanical                                               | Nominal Value | Unit              | Test Method |
| Tensile Strength                                         | 190           | MPa               | ASTM D638   |
| Tensile Elongation (Break)                               | 4.3           | %                 | ASTM D638   |
| Flexural Modulus                                         | 10000         | MPa               | ASTM D790   |
| Flexural Strength                                        | 240           | MPa               | ASTM D790   |
| Impact                                                   | Nominal Value | Unit              | Test Method |
| Notched Izod Impact                                      | 100           | J/m               | ASTM D256   |
| Thermal                                                  | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)  | 285           | °C                | ASTM D648   |
| Glass Transition Temperature                             | 125           | °C                |             |
| Melting Temperature                                      | 306           | °C                |             |
| Electrical                                               | Nominal Value | Unit              | Test Method |
| Volume Resistivity                                       | 1.0E+16       | ohms·cm           | ASTM D257   |
| Dielectric Strength                                      | 30            | kV/mm             | ASTM D149   |
| Dielectric Constant (10.0 GHz)                           | 3.40          |                   | ASTM D150   |
| Dissipation Factor (10.0 GHz)                            | 0.010         |                   | ASTM D150   |

|                                                |               |      |             |
|------------------------------------------------|---------------|------|-------------|
| Comparative Tracking Index (CTI)               | PLC 1         |      | UL 746      |
| Flammability                                   | Nominal Value | Unit | Test Method |
| Flame Rating                                   | V-0           |      | UL 94       |
| Additional Information                         | Nominal Value | Unit | Test Method |
| Bar Flow Length <sup>2</sup> (320°C, 500.0 μm) | 4.50          | cm   |             |
| Weld Elongation                                | 0.80          | %    | ASTM D638   |
| Weld Strength                                  | 60.0          | MPa  | ASTM D638   |
| NOTE                                           |               |      |             |
| 1.                                             | 96 hrs        |      |             |
| 2.                                             | 750kgf        |      |             |

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