

# AURUM® JGN3030

Thermoplastic Polyimide

Mitsui Chemicals, Inc.

## Message:

- Features
- Glass Fiber Reinforced
- High Modulus
- Excellent Electrical Properties (Electrical Insulation)

| General Information                                     |                                 |          |                 |
|---------------------------------------------------------|---------------------------------|----------|-----------------|
| UL YellowCard                                           | E52579-242962                   |          |                 |
| Filler / Reinforcement                                  | Glass fiber reinforced material |          |                 |
| Features                                                | Insulation                      |          |                 |
|                                                         | Good electrical performance     |          |                 |
| Forms                                                   | Particle                        |          |                 |
| Physical                                                | Nominal Value                   | Unit     | Test Method     |
| Specific Gravity                                        | 1.56                            | g/cm³    | ASTM D792       |
| Molding Shrinkage                                       |                                 |          | Internal method |
| Flow                                                    | 0.16                            | %        | Internal method |
| Transverse flow                                         | 0.78                            | %        | Internal method |
| Mechanical                                              | Nominal Value                   | Unit     | Test Method     |
| Tensile Strength                                        | 165                             | MPa      | ASTM D638       |
| Tensile Elongation (Break)                              | 3.0                             | %        | ASTM D638       |
| Flexural Modulus                                        | 9500                            | MPa      | ASTM D790       |
| Flexural Strength                                       | 241                             | MPa      | ASTM D790       |
| Impact                                                  | Nominal Value                   | Unit     | Test Method     |
| Unnotched Izod Impact                                   | 120                             | J/m      | ASTM D256       |
| Thermal                                                 | Nominal Value                   | Unit     | Test Method     |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 245                             | °C       | ASTM D648       |
| Linear thermal expansion coefficient                    |                                 |          | ASTM D696       |
| Flow                                                    | 1.7E-5                          | cm/cm/°C | ASTM D696       |
| Lateral                                                 | 5.3E-5                          | cm/cm/°C | ASTM D696       |

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