# NORYL GTX™ Resin GTX6009 - Asia

(PPE+PA*) Saudi Basic Industries Corporation (SABIC)

**Product Texts**

NORYL GTX™ 6009 resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits high heat resistance, and excellent chemical resistance. NORYL GTX6009 resin may be an excellent candidate for exterior automotive applications such as wheel covers and wheel trim.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Thermal conductivity of melt | **0.23** | W/(m K) | - |
| Spec. heat capacity of melt | **1780** | J/(kg K) | - |
| Ejection temperature | **187** | °C | - |

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ASTM Data** | | | |
| Tensile Strength at Yield | **53** | MPa | ASTM D 638 |
| Elongation at Break | **90** | % | ASTM D 638 |
| Flexural Modulus | **2130** | MPa | ASTM D 790 |
| Rockwell Hardness | **R 110** | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | **736** | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Coeff. of linear therm. expansion, parallel | **81.2** | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | **81.6** | E-6/K | ISO 11359-1/-2 |
| **ASTM Data** | | | |
| DTUL @ 66 psi | **160** | °C | ASTM D 648 |

| Electrical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ASTM Data** | | | |
| Volume Resistivity | **>1E15** | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1120** | kg/m³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **95 - 105** | °C | - |
| Pre-drying - Time | **3 - 4** | h | - |
| Processing humidity | **≤0.07** | % | - |
| Melt temperature | **280 - 305** | °C | - |
| Mold temperature | **75 - 120** | °C | - |
| Zone 1 | **265 - 305** | °C | - |
| Zone 2 | **270 - 305** | °C | - |
| Zone 3 | **275 - 305** | °C | - |
| Screw speed | **20 - 100** | rpm | - |
| Back pressure | **0.3 - 1.4** | MPa | - |

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

Asia Pacific

**Applications**

Automotive