

Product Texts

NORYL GTX™ 674PC resin is a conductive, non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade is optimized to allow for in- or on-line primer-less powder coat painting around corners and holes with a Class A Surface. NORYL GTX674PC resin exhibits high heat resistance, improved surface appearance and is an excellent candidate for automotive applications such as mirror housings and brackets. This material is only available in black.

UL Yellow Card Link [E121562-549484](https://www.ulprospector.com/usa/Products/121562-549484)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Density of melt | 967 | kg/m ³ | - |
| Thermal conductivity of melt | 0.19 | W/(m K) | - |
| Spec. heat capacity of melt | 3760 | J/(kg K) | - |
| Ejection temperature | 156 | °C | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 25 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 5 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|--------------------------------------|-------|------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2320 | MPa | ISO 527 |
| Yield strain | 3 | % | ISO 527 |
| Stress at break | 60 | MPa | ISO 527 |
| Strain at break | 4 | % | ISO 527 |
| Flexural modulus | 2480 | MPa | ISO 178 |
| ASTM Data | | | |
| Tensile Modulus | 2810 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 65 | MPa | ASTM D 638 |
| Tensile Strength at Break | 64 | MPa | ASTM D 638 |
| Elongation at Yield | 3 | % | ASTM D 638 |
| Elongation at Break | 4 | % | ASTM D 638 |
| Flexural Modulus | 2890 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 74 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 50 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 0.45 MPa | 185 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 197 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 196 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 122 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 134 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| ASTM Data | | | |
| DTUL @ 66 psi | 188 | °C | ASTM D 648 |
| Vicat Temperature | 197 | °C | ASTM D 1525 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1110 | kg/m ³ | ISO 1183 |
| Density | 1110 | kg/m ³ | 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 | - |

NORYL GTX™ Resin GTX674PC - Americas

(PPE+PA*)

Saudi Basic Industries Corporation (SABIC)

| | | | |
|------------------|------------------|-----|---|
| 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

North America