

NORYL GTX™ Resin GTX8110P - Europe

(PPE+PA*)-GF10

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL GTX™ 8110P resin is a 10% glass reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This extrudable grade has excellent chemical resistance, and high heat resistance. NORYL GTX8110P resin is anodizable, has low thermal conductivity, and is an excellent candidate for extruded thermal break applications.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|---------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 14 | cm ³ /10min | ISO 1133 |
| Temperature | 280 | °C | - |
| Load | 10 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 4500 | MPa | ISO 527 |
| Yield stress | 100 | MPa | ISO 527 |
| Yield strain | 4 | % | ISO 527 |
| Stress at break | 95 | MPa | ISO 527 |
| Strain at break | 5 | % | ISO 527 |
| Flexural modulus | 3400 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 8 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C, 4mm | 7 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C, 4mm | 6 | kJ/m ² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|----------------|
| ISO Data | | | |
| Temp. of deflection under load, 0.45 MPa | 205 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 225 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 225 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 53 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 72 | E-6/K | ISO 11359-1/-2 |

| Other properties | Value | Unit | Test Standard |
|---------------------|-------|-------------------|----------------|
| Water absorption | 3 | % | Sim. to ISO 62 |
| Humidity absorption | 1.1 | % | Sim. to ISO 62 |
| Density | 1170 | kg/m ³ | ISO 1183 |

Characteristics**Processing**

Profile Extrusion

Regional Availability

Europe