

NORYL GTX™ Resin GTX8120P - Asia

(PPE+PA*)-GF20

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL GTX™ 8120P resin is a 20% glass reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This extrudable grade has excellent chemical resistance and high heat resistance. . NORYL GTX8120P 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 | 12 | cm ³ /10min | ISO 1133 |
| Temperature | 280 | °C | - |
| Load | 10 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 6800 | MPa | ISO 527 |
| Yield stress | 125 | MPa | ISO 527 |
| Yield strain | 3 | % | ISO 527 |
| Stress at break | 125 | MPa | ISO 527 |
| Strain at break | 3.5 | % | ISO 527 |
| Flexural modulus | 5000 | 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 | 240 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 235 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 235 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 35 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 75 | E-6/K | ISO 11359-1/-2 |

| Other properties | Value | Unit | Test Standard |
|---------------------|-------|-------------------|----------------|
| Water absorption | 2.5 | % | Sim. to ISO 62 |
| Humidity absorption | 1 | % | Sim. to ISO 62 |
| Density | 1240 | kg/m ³ | ISO 1183 |

Characteristics**Processing**

Profile Extrusion

Regional Availability

Asia Pacific