

## SABIC Innovative Plastics NORYL GTX GTX985 PPE+PA66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Polyphenylene Ether/PPO

### Material Notes:

NORYL GTX985 is a 18% mineral filled material. This material combines high stiffness and excellent temperature resistance with conductivity for electrostatic painting.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-GTX-GTX985-PPEPA66-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX985-PPEPA66-Asia-Pacific.php)

| Physical Properties         | Metric                                               | English                                              | Comments                                |
|-----------------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|
| Specific Gravity            | 1.25 g/cc                                            | 1.25 g/cc                                            | ASTM D792                               |
| Density                     | 1.25 g/cc                                            | 0.0452 lb/in <sup>3</sup>                            | ISO 1183                                |
| Moisture Absorption         | 1.10 %                                               | 1.10 %                                               | 23Â°C / 50% RH; ISO 62                  |
| Linear Mold Shrinkage, Flow | 0.011 cm/cm<br>@Thickness 3.20 mm                    | 0.011 in/in<br>@Thickness 0.126 in                   | SABIC Method                            |
| Melt Flow                   | 16 g/10 min<br>@Load 5.00 kg,<br>Temperature 280 Â°C | 16 g/10 min<br>@Load 11.0 lb,<br>Temperature 536 Â°F | ASTM D1238                              |
| Melt Index of Compound      | 15 g/10 min<br>@Load 5.00 kg,<br>Temperature 280 Â°C | 15 g/10 min<br>@Load 11.0 lb,<br>Temperature 536 Â°F | MVR [cm <sup>3</sup> /10 min]; ISO 1133 |

| Mechanical Properties     | Metric   | English   | Comments                    |
|---------------------------|----------|-----------|-----------------------------|
| Tensile Strength at Break | 60.0 MPa | 8700 psi  | Type I, 5 mm/min; ASTM D638 |
|                           | 60.0 MPa | 8700 psi  | 5 mm/min; ISO 527           |
| Tensile Strength, Yield   | 65.0 MPa | 9430 psi  | Type I, 5 mm/min; ASTM D638 |
|                           | 65.0 MPa | 9430 psi  | 5 mm/min; ISO 527           |
| Elongation at Break       | 7.0 %    | 7.0 %     | Type I, 5 mm/min; ASTM D638 |
|                           | 7.0 %    | 7.0 %     | 5 mm/min; ISO 527           |
| Elongation at Yield       | 4.0 %    | 4.0 %     | Type I, 5 mm/min; ASTM D638 |
|                           | 4.0 %    | 4.0 %     | 5 mm/min; ISO 527           |
| Tensile Modulus           | 4.40 GPa | 638 ksi   | 1 mm/min; ISO 527           |
| Flexural Yield Strength   | 105 MPa  | 15200 psi | 2 mm/min; ISO 178           |

| Mechanical Properties        | 110 MPa<br>Metric        | 16000 psi<br>English     | 1.3 mm/min, 50 mm span; ASTM D790<br>Comments |
|------------------------------|--------------------------|--------------------------|-----------------------------------------------|
| Flexural Modulus             | 4.20 GPa                 | 609 ksi                  | 1.3 mm/min, 50 mm span; ASTM D790             |
|                              | 4.35 GPa                 | 631 ksi                  | 2 mm/min; ISO 178                             |
| Izod Impact, Notched         | 0.450 J/cm               | 0.843 ft-lb/in           | ASTM D256                                     |
|                              | 0.400 J/cm               | 0.749 ft-lb/in           | ASTM D256                                     |
|                              | @Temperature -30.0<br>°C | @Temperature -22.0<br>°F |                                               |
| Izod Impact, Notched (ISO)   | 4.00 kJ/mÂ²              | 1.90 ft-lb/inÂ²          | 80*10*4; ISO 180/1A                           |
|                              | 4.00 kJ/mÂ²              | 1.90 ft-lb/inÂ²          | 80*10*4; ISO 180/1A                           |
|                              | @Temperature -30.0<br>°C | @Temperature -22.0<br>°F |                                               |
| Izod Impact, Unnotched (ISO) | 60.0 kJ/mÂ²              | 28.6 ft-lb/inÂ²          | 80*10*3; ISO 180/1U                           |
|                              | 55.0 kJ/mÂ²              | 26.2 ft-lb/inÂ²          | 80*10*3; ISO 180/1U                           |
|                              | @Temperature -30.0<br>°C | @Temperature -22.0<br>°F |                                               |
| Charpy Impact, Notched       | 0.400 J/cmÂ²             | 1.90 ft-lb/inÂ²          | Edgew 80*10*4 sp=62mm; ISO 179/1eA            |
| Dart Drop, Total Energy      | 10.0 J                   | 7.38 ft-lb               | ASTM D3763                                    |
|                              | @Temperature 23.0<br>°C  | @Temperature 73.4<br>°F  |                                               |

| Thermal Properties                             | Metric                          | English                        | Comments                         |
|------------------------------------------------|---------------------------------|--------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow                  | 60.0 Âµm/m-Â°C                  | 33.3 Âµin/in-Â°F               | ISO 11359-2                      |
|                                                | @Temperature 23.0 -<br>60.0 Â°C | @Temperature 73.4 -<br>140 Â°F |                                  |
| CTE, linear, Transverse to Flow                | 65.0 Âµm/m-Â°C                  | 36.1 Âµin/in-Â°F               | ISO 11359-2                      |
|                                                | @Temperature 23.0 -<br>60.0 Â°C | @Temperature 73.4 -<br>140 Â°F |                                  |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 205 Â°C                         | 401 Â°F                        | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
|                                                | 200 Â°C                         | 392 Â°F                        | unannealed; ASTM D648            |
|                                                | @Thickness 3.20 mm              | @Thickness 0.126 in            |                                  |
| Vicat Softening Point                          | 195 Â°C                         | 383 Â°F                        | Rate B/50; ASTM D1525            |
|                                                | 195 Â°C                         | 383 Â°F                        | Rate B/50; ISO 306               |

| Thermal Properties | 200 Å°C<br>Metric | 392 Å°F<br>English | Rate B/120- ISO 306<br>Comments |
|--------------------|-------------------|--------------------|---------------------------------|
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