

## SABIC Innovative Plastics NORYL GTX GTX830 PPE+PS+PA

Category : Polymer , Thermoplastic , Nylon , Polyphenylene Ether/PPO , Polystyrene (PS)

## Material Notes:

30% Glass Reinforced PPE+PA Alloy.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-GTX-GTX830-PPEPSA.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX830-PPEPSA.php)

| Physical Properties                | Metric                | English                    | Comments                  |
|------------------------------------|-----------------------|----------------------------|---------------------------|
| Specific Gravity                   | 1.33 g/cc             | 1.33 g/cc                  | ASTM D792                 |
| Density                            | 1.328 g/cc            | 0.04798 lb/in <sup>3</sup> | ASTM D792                 |
| Moisture Absorption                | 0.500 %               | 0.500 %                    | 50% RH, 24 hrs; ASTM D570 |
| Moisture Absorption at Equilibrium | 1.0 %                 | 1.0 %                      | 50% RH; ASTM D570         |
| Linear Mold Shrinkage, Flow        | 0.0020 - 0.0030 cm/cm | 0.0020 - 0.0030 in/in      | SABIC Method              |
|                                    | @Thickness 3.20 mm    | @Thickness 0.126 in        |                           |
| Linear Mold Shrinkage, Transverse  | 0.0065 - 0.0085 cm/cm | 0.0065 - 0.0085 in/in      | SABIC Method              |
|                                    | @Thickness 3.20 mm    | @Thickness 0.126 in        |                           |

| Mechanical Properties     | Metric                 | English                | Comments                                         |
|---------------------------|------------------------|------------------------|--------------------------------------------------|
| Hardness, Rockwell R      | 120                    | 120                    | ASTM D785                                        |
| Tensile Strength at Break | 158 MPa                | 22900 psi              | Nominal Stress, brk, Type I, 5 mm/min; ASTM D638 |
| Tensile Strength, Yield   | 151 MPa                | 21900 psi              | Nominal Stress, yld, Type I, 5 mm/min; ASTM D638 |
| Elongation at Break       | 7.0 %                  | 7.0 %                  | Nominal Strain, 5 mm/min; ASTM D638              |
| Flexural Yield Strength   | 248 MPa                | 36000 psi              | 2.6 mm/min, 100 mm span; ASTM D790               |
| Flexural Modulus          | 8.58 GPa               | 1240 ksi               | 2.6 mm/min, 100 mm span; ASTM D790               |
| Izod Impact, Notched      | 1.06 J/cm              | 1.99 ft-lb/in          | ASTM D256                                        |
|                           | 0.800 J/cm             | 1.50 ft-lb/in          | ASTM D256                                        |
|                           | @Temperature -30.0 Å°C | @Temperature -22.0 Å°F |                                                  |

| Thermal Properties | Metric                | English                 | Comments |
|--------------------|-----------------------|-------------------------|----------|
|                    | 19.8 - 30.6 Åµm/m-Å°C | 11.0 - 17.0 Åµin/in-Å°F |          |

| Thermal Properties                          | Metric                        | English                        | Comments              |
|---------------------------------------------|-------------------------------|--------------------------------|-----------------------|
|                                             | @ Temperature -20.0 - 150 Â°C | @ Temperature -4.00 - 302 Â°F  |                       |
| Deflection Temperature at 0.46 MPa (66 psi) | 254 Â°C<br>@Thickness 6.40 mm | 489 Â°F<br>@Thickness 0.252 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 240 Â°C<br>@Thickness 6.40 mm | 464 Â°F<br>@Thickness 0.252 in | unannealed; ASTM D648 |
| Vicat Softening Point                       | 248 Â°C                       | 478 Â°F                        | Rate B/50; ASTM D1525 |
| UL RTI, Electrical                          | 50.0 Â°C                      | 122 Â°F                        | UL 746B               |
| UL RTI, Mechanical with Impact              | 50.0 Â°C                      | 122 Â°F                        | UL 746B               |
| UL RTI, Mechanical without Impact           | 50.0 Â°C                      | 122 Â°F                        | UL 746B               |
| Flammability, UL94                          | HB<br>@Thickness 1.47 mm      | HB<br>@Thickness 0.0579 in     | UL 94                 |

| Electrical Properties                | Metric             | English             | Comments            |
|--------------------------------------|--------------------|---------------------|---------------------|
| Arc Resistance                       | 60 - 120 sec       | 60 - 120 sec        | Tungsten; ASTM D495 |
| Comparative Tracking Index           | 250 - 400 V        | 250 - 400 V         | UL 746A             |
| Hot Wire Ignition, HWI               | >= 120 sec         | >= 120 sec          | UL 746A             |
| High Amp Arc Ignition, HAI           | 30 - 60 arcs       | 30 - 60 arcs        | UL 746A             |
| High Voltage Arc-Tracking Rate, HVTR | 10.0 - 25.4 mm/min | 0.394 - 1.00 in/min | UL 746A             |

## Contact Songhan Plastic Technology Co.,Ltd.

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