

SABIC Innovative Plastics NORYL GTX GTX902 PPE+PS+PA (Asia Pacific)

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

Material Notes:

Unreinforced. Excellent chemical resistance and paintability. 312F (155C) HDT.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX902-PPEPSA-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|----------------------|----------------------|------------------------------|
| Specific Gravity | 1.08 g/cc | 1.08 g/cc | ASTM D792 |
| Water Absorption | 0.40 % | 0.40 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Moisture Absorption at Equilibrium | 3.6 % | 3.6 % | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.011 - 0.015 cm/cm | 0.011 - 0.015 in/in | annealed 130C 1hr; ASTM D955 |
| | 0.0090 - 0.012 cm/cm | 0.0090 - 0.012 in/in | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | SABIC Method |
| Linear Mold Shrinkage, Transverse | 0.0080 - 0.011 cm/cm | 0.0080 - 0.011 in/in | SABIC Method |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------|------------------------|------------------------------------|
| Hardness, Rockwell R | 118 | 118 | ASTM D785 |
| Tensile Strength at Break | 56.0 MPa | 8120 psi | Type I, 50 mm/min; ASTM D638 |
| Tensile Strength, Yield | 59.0 MPa | 8560 psi | Type I, 50 mm/min; ASTM D638 |
| Elongation at Break | 52 % | 52 % | Type I, 50 mm/min; ASTM D638 |
| Elongation at Yield | 9.0 % | 9.0 % | Type I, 50 mm/min; ASTM D638 |
| Flexural Yield Strength | 89.0 MPa | 12900 psi | 2.6 mm/min, 100 mm span; ASTM D790 |
| Flexural Modulus | 2.24 GPa | 325 ksi | 2.6 mm/min, 100 mm span; ASTM D790 |
| Izod Impact, Notched | 2.72 J/cm | 5.10 ft-lb/in | ASTM D256 |
| | 0.530 J/cm | 0.993 ft-lb/in | ASTM D256 |
| | @Temperature -40.0 Å°C | @Temperature -40.0 Å°F | |
| | 1.17 J/cm | 2.19 ft-lb/in | ASTM D256 |

| Mechanical Properties | Metric @Temperature -30.0 Â°C | English @Temperature -22.0 Â°F | Comments |
|--------------------------------|---|---|--|
| Izod Impact, Unnotched | 32.04 J/cm | 60.02 ft-lb/in | ASTM D4812 |
| | 32.04 J/cm @Temperature -30.0 Â°C | 60.02 ft-lb/in @Temperature -22.0 Â°F | ASTM D4812 |
| | 32.04 J/cm @Temperature -40.0 Â°C | 60.02 ft-lb/in @Temperature -40.0 Â°F | ASTM D4812 |
| Dart Drop, Total Energy | 46.0 J | 33.9 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| | 19.0 J @Temperature -40.0 Â°C | 14.0 ft-lb @Temperature -40.0 Â°F | Instrumented Impact Energy @ peak; ASTM D3763 |
| | 36.0 J @Temperature -30.0 Â°C | 26.6 ft-lb @Temperature -22.0 Â°F | Instrumented Impact Energy @ peak; ASTM D3763 |
| Taber Abrasion, mg/1000 Cycles | 19 | 19 | CS-17, 1 kg; ASTM D1044 |

| Thermal Properties | Metric | English | Comments |
|--|---|---|-----------------------|
| CTE, linear, Parallel to Flow | 90.0 Âµm/m-Â°C @Temperature -20.0 - 150 Â°C | 50.0 Âµin/in-Â°F @Temperature -4.00 - 302 Â°F | ASTM E 831 |
| Deflection Temperature at 0.46 MPa (66 psi) | 155 Â°C @Thickness 6.40 mm | 311 Â°F @Thickness 0.252 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 127 Â°C @Thickness 6.40 mm | 261 Â°F @Thickness 0.252 in | unannealed; ASTM D648 |
| Vicat Softening Point | 232 Â°C | 450 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 @Thickness 1.49 mm | HB @Thickness 0.0587 in | UL 94 |

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