

SABIC Innovative Plastics NORYL GTX APS440 PPE+PPS (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Sulfide (PPS)

Material Notes:

PPE+PPS, GF40%, FR V-0

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-APS440-PPEPPS-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--|--|--------------|
| Specific Gravity | 1.59 g/cc | 1.59 g/cc | ASTM D792 |
| Water Absorption | 0.010 % @Time 86400 sec | 0.010 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0070 cm/cm @Thickness 3.20 mm | 0.0020 - 0.0070 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 46.6 g/10 min @Load 5.00 kg, Temperature 300 Â°C | 46.6 g/10 min @Load 11.0 lb, Temperature 572 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|---------------|----------------------|
| Tensile Strength, Yield | 127 MPa | 18400 psi | SABIC - Japan Method |
| Elongation at Break | 7.0 % | 7.0 % | SABIC - Japan Method |
| Flexural Strength | 166 MPa | 24100 psi | ASTM D790 |
| Flexural Modulus | 10.78 GPa | 1564 ksi | ASTM D790 |
| Izod Impact, Notched | 0.580 J/cm | 1.09 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--|---|---|-----------------------|
| CTE, linear | 18.0 - 58.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C | 10.0 - 32.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F | TMA |
| Deflection Temperature at 1.8 MPa (264 psi) | 257 Â°C @Thickness 6.40 mm | 495 Â°F @Thickness 0.252 in | unannealed; ASTM D648 |
| Flammability, UL94 | V-0 @Thickness 0.800 mm | V-0 @Thickness 0.0315 in | UL 94 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties | Metric <small>① 25±16 ohm</small> | English <small>① 25±16 ohm</small> | Comments |
|-----------------------|-------------------------------------|-------------------------------------|-----------|
| Dielectric Constant | 3.6 @Frequency 50.0 - 60.0 Hz | 3.6 @Frequency 50.0 - 60.0 Hz | ASTM D150 |

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