

Technical Datasheet

| Material Type | PA66 | Trademark | Wellamid® | Grade Name | GFX1743-BK1 (PTFE) |
|-------------------|------|-----------|-----------|------------|---|
| Feature | | | | | <ul style="list-style-type: none"> Glass Fiber Reinforced, Lubricated Nylon Resin (PA66) |
| Material Standard | | | | | <ul style="list-style-type: none"> XXXXXX |
| Availability | | | | | <ul style="list-style-type: none"> Asian-Pacific, America |
| Processing method | | | | | <ul style="list-style-type: none"> Injection Molding |
| Appearance | | | | | <ul style="list-style-type: none"> Color is Optional |
| Applications | | | | | <ul style="list-style-type: none"> Automotive and Engineering parts |

General Properties

| No. | Properties | Unit | Typical Value | Method | Test condition |
|-----|-----------------------------|-------------------|-------------------------|----------------|----------------|
| 1 | Filler Content | % | 43 | ISO 3451-1, -4 | |
| 2 | Density | g/mL | 1.55 | ISO 1183 | 23 °C |
| 3 | Melt Point | °C | 260 | ISO 3146 | DSC |
| 4 | Tensile Strength | MPa | 180 | ISO 527 | 5 mm/mm |
| 5 | Tensile Elongation | % | 2 | ISO 527 | 5 mm/mm |
| 6 | Flexural Strength | MPa | 255 | ISO 178 | 2 mm/mm |
| 7 | Flexural Modulus | MPa | 12,400 | ISO 178 | 2 mm/mm |
| 8 | Izod Impact | kJ/m ² | 12 | ISO 180 | 23 °C |
| 9 | Heat Deflection Temperature | °C | 225 | ISO 75 | 1.8 MPa |
| 10 | Material Shrinkage | % | 0.4/0.9 (flow/cross) | ISO 294 | 23 °C, 48h |

Processing Conditions

| | |
|--------------------|--|
| Drying condition | 80 °C, 2-4 h |
| Molding Temp. | 260 - 290 °C (F), 260 - 290 °C (M), 270 - 290 °C (B) |
| Melt Temp. | 270 - 290 °C |
| Mold Temp. | 70 - 90 °C |
| Screw Speed | 30 - 120 rpm |
| Injection Pressure | 30 - 140 MPa |
| Back Pressure | 0.30 – 1.40 MPa |

Notes: This technical data in the product brochures are typical test results for reference, and should not be defined as minimum value.