

Technical Data Sheet

Vitamide BR16GY 6-1870

Polyamide 6

Product Description

Vitamide BR16GY 6-1870 is a Polyamide 6 Glass Fiber, 30% filled material and is typically used in Injection Molding applications.

Processing Method Injection Molding

Application Plumbing Parts

Filler/Reinforcement Glass Fiber, 30%

| Typical Properties | Nominal Value | Units | Test Method |
|---|--------------------|-------------------|----------------|
| Physical | | | |
| Density | 1.37 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| Tensile Stress at Yield | 180 | MPa | ISO 527-2 |
| Tensile Strain at Break | 3 | % | ISO 527-2 |
| Flexural Modulus | 8000 | MPa | ISO 178 |
| Flexural Stress | 230 | MPa | ISO 178 |
| Impact | | | |
| Notched Izod Impact Strength | 12 | kJ/m ² | ISO 180 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 217 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 205 | °C | ISO 75-2/A |
| DSC Melting Point | 221 | °C | ISO 3146 |
| Electrical | | | |
| Dielectric Strength, (2.00 mm) | 22 | kV/mm | IEC 60243-1 |
| Comparative Tracking Index (CTI), (Solution A) | 550 | V | IEC 60112 |
| Surface Resistivity | 1000000000 0000 | ohm | IEC 60093 |
| Flammable | | | |
| Burning Rate | | | |
| (2.00 mm) | <100 | mm/min | ISO 3795 |
| (2.00 mm) | <100 | mm/min | FMVSS 302 |
| Glow Wire Ignition Temperature | 650 | °C | IEC 60695-2-13 |
| UL Information | | | |
| Flame Rating | HB | | UL 94 |

| Injection Parameters | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time | 3.0 to 4.0 | hr |
| Drying Temperature | 80 | °C |
| Processing (Melt) Temp | 250 to 280 | °C |
| Mold Temperature | 70 to 100 | °C |