

MAZMID B 150 FV 50

Polyamide 6

Mazzaferro Indústria e Comércio de Polímeros e Fibras Ltda.

Message:

MAZMID B 150 FV 50 is a Polyamide 6 (Nylon 6) product filled with 50% glass fiber. It can be processed by injection molding and is available in Latin America. Applications of MAZMID B 150 FV 50 include electrical/electronic applications, engineering/industrial parts, automotive and housings. Characteristics include:

- Flame Rated
- Good Aesthetics
- Good Dimensional Stability
- Heat Resistant
- High Stiffness

| General Information | | | | |
|--------------------------------|--------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement | | Glass Fiber,50% Filler by Weight | | |
| Features | | Good Dimensional Stability | | |
| | | Good Surface Finish | | |
| | | Good Thermal Stability | | |
| | | High Stiffness | | |
| | | Low Viscosity | | |
| Uses | | Automotive Applications | | |
| | | Electrical Parts | | |
| | | Electrical/Electronic Applications | | |
| | | Gears | | |
| | | Housings | | |
| | | Knobs | | |
| Processing Method | | Injection Molding | | |
| Physical | Dry | Conditioned | Unit | Test Method |
| Specific Gravity | 1.56 | -- | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.15 to 0.25 | -- | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.75 | -- | % | ASTM D570 |
| Hardness | Dry | Conditioned | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 125 | 115 | | ASTM D785 |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus | 14500 | 700 | MPa | ASTM D638 |
| Tensile Strength | 200 | 140 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.0 | 3.0 | % | ASTM D638 |
| Flexural Modulus | 13000 | 8000 | MPa | ASTM D790 |
| Flexural Strength | 300 | 190 | MPa | ASTM D790 |

| Impact | Dry | Conditioned | Unit | Test Method |
|-----------------------------------|------------|-------------|----------|-------------|
| Notched Izod Impact | 130 | 230 | J/m | ASTM D256 |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Deflection Temperature Under Load | | | | ASTM D648 |
| 0.45 MPa, Unannealed | 230 | -- | °C | |
| 1.8 MPa, Unannealed | 220 | -- | °C | |
| Continuous Use Temperature | 120 to 130 | -- | °C | |
| Melting Temperature | 214 to 220 | -- | °C | |
| CLTE - Flow | 1.8E-5 | -- | cm/cm/°C | ASTM D696 |
| Electrical | Dry | Conditioned | Unit | Test Method |
| Volume Resistivity | 1.0E+15 | -- | ohms·cm | ASTM D257 |
| Dielectric Strength | 22 | -- | kV/mm | ASTM D149 |
| Flammability | Dry | Conditioned | Unit | Test Method |
| Flame Rating (1.60 mm) | HB | -- | | UL 94 |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

