

Kaneka MUH M3100

Acrylonitrile Butadiene Styrene

Kaneka Corporation

Message:

Kaneka MUH M3100 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America and is processed by injection molding. The main features of Kaneka MUH M3100 are:

- Good processability
- Impact resistance
- chemical resistance
- Heat resistance
- Typical application areas include:
 - Electrical/electronic applications
 - Automotive Industry

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| Features | Impact resistance, good | | |
| | Good formability | | |
| | Good chemical resistance | | |
| | Heat resistance, high | | |
| Uses | Electrical/Electronic Applications | | |
| | Application in Automobile Field | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.05 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.50 - 0.80 | % | ASTM D955 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 105 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 48.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 20 | % | ASTM D638 |
| Flexural Modulus | 2350 | MPa | ASTM D790 |
| Flexural Strength | 70.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (6.40 mm) | 180 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 104 | °C | ASTM D648 |
| Additional Information | | | |
| Spiral Flow, Kaneka Method, 482°F, 3 mm: 18.8 in | | | |
| Injection | Nominal Value | Unit | |

| | | |
|------------------------|-----------|----|
| Drying Temperature | 94.0 | °C |
| Drying Time | 3.0 | hr |
| Rear Temperature | 230 - 250 | °C |
| Middle Temperature | 230 - 250 | °C |
| Front Temperature | 230 - 250 | °C |
| Processing (Melt) Temp | 280 | °C |
| Mold Temperature | 50.0 | °C |

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