

Sumikon® PM-8180

Phenolic
Sumitomo Bakelite Co., Ltd.

Message:

Sumikon® PM-8180 is a phenolic (Phenolic) product. It can be processed by injection molding and is available in North America or Asia Pacific.
Features include:
flame retardant/rated flame
high strength
Heat resistance

| General Information | | | |
|---|--|-------------------|-------------|
| Features | High strength Heat resistance, high | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.42 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | 1.0 - 1.2 | % | ISO 294-4 |
| Water Absorption (23°C, 24 hr) | 0.30 | % | ISO 62 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (M-Scale) | 115 | | ISO 2039-2 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Stress | 85.0 | MPa | ISO 178 |
| Compressive Stress | 200 - 220 | MPa | ISO 604 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | 3.0 | kJ/m ² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 180 | °C | ISO 75-2/A |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength | 10 | kV/mm | IEC 60243-1 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.800 mm) | HB | | UL 94 |
| Additional Information | | | |

Insulation Resistance, JIS K6911, as molded: 1E9 to 1E11 ohmInsulation Resistance, JIS K6911, after boiling: 1E8 to 1E10 ohmAppearance after heating, JIS K6911, @ 2 hrs: 165°CAll ISO values were tested in accordance with JIS specifications.

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