

Piolen® P B50A19

Polypropylene Homopolymer

PiO Kunststoffe GmbH & Co KG

Message:

Piolen® P B50A19 is a Polypropylene Homopolymer (PP Homopolymer) product filled with 50% barium sulfate. It can be processed by injection molding and is available in Europe. Typical application: Automotive.

Characteristics include:

Flame Rated

Good Aesthetics

Good Dimensional Stability

Homopolymer

| General Information | | | |
|---|-------------------------------------|-------------------|-------------|
| Filler / Reinforcement | Barium Sulfate,50% Filler by Weight | | |
| Features | Good Dimensional Stability | | |
| | Good Flow | | |
| | Good Surface Finish | | |
| | Homopolymer | | |
| Uses | Automotive Applications | | |
| | Automotive Under the Hood | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.51 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 20 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ISO 527-2 |
| Yield | 22.0 | MPa | |
| Break | 19.0 | MPa | |
| Tensile Strain (Break) | 56 | % | ISO 527-2 |
| Flexural Modulus | 2100 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -40°C | 1.5 | kJ/m ² | |
| 23°C | 3.7 | kJ/m ² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -40°C | 6.7 | kJ/m ² | |
| 23°C | 14 | kJ/m ² | |

| Thermal | Nominal Value | Unit | Test Method |
|--|---------------|-------------|-------------|
| Vicat Softening Temperature | | | |
| -- | 151 | °C | ISO 306/A |
| -- | 89.0 | °C | ISO 306/B |
| Peak Crystallization Temperature (DSC) | 160 to 170 | °C | ISO 3146 |
| Flammability | Nominal Value | Test Method | |
| Flame Rating | HB | UL 94 | |

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