

SABIC® PPcompound 7996

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PPcompound 7996 is a modified mineral filled Polypropylene for automotive exterior applications. The material combines high flow, very high stiffness, good scratch resistance and an excellent UV performance. The combination of a broad processing window and good mechanical properties and the UV resistance make it suited for demanding aesthetic automotive exterior applications.

| General Information | | | |
|--|---------------------------|-------------------|----------------|
| Filler / Reinforcement | Mineral filler | | |
| Features | Super rigidity | | |
| | Good UV resistance | | |
| | Workability, good | | |
| | High liquidity | | |
| | Scratch resistance | | |
| Uses | Car interior parts | | |
| | Automotive exterior parts | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.04 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) | | | ISO 1133 |
| 230°C/2.16 kg | 30 | g/10 min | ISO 1133 |
| 230°C/5.0 kg | 150 | g/10 min | ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 67 | | ISO 868 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ISO 527-2/5/50 |
| Yield, 3.20mm | 26.0 | MPa | ISO 527-2/5/50 |
| Fracture, 3.20mm | 20.0 | MPa | ISO 527-2/5/50 |
| Tensile Strain (Break, 3.20 mm) | 40 | % | ISO 527-2/5/50 |
| Flexural Modulus ¹ | 2000 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 8.0 | kJ/m ² | ISO 179 |
| Charpy Unnotched Impact Strength (-40°C) | 15 | kJ/m ² | ISO 179 |
| Notched Izod Impact | | | ISO 180/3A |
| -20°C | 2.3 | kJ/m ² | ISO 180/3A |
| 0°C | 3.0 | kJ/m ² | ISO 180/3A |

| 23°C | 5.0 | kJ/m ² | ISO 180/3A |
|--|---------------|-------------------|-------------|
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 120 | °C | ISO 75-2/B |
| Vicat Softening Temperature | 140 | °C | ISO 306/A50 |
| CLTE - Flow | 9.5E-5 | cm/cm/°C | ASTM D696 |
| Additional Information | | | |
| Mold Shrinkage, SABIC Method: 0.9% | | | |
| NOTE | | | |

1. Method I (three-point load)

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