

SABIC® PPCOMPOUND 31T1010

PP COMPOUND MINERAL FILLED
REGION AMERICAS

DESCRIPTION

SABIC® PPcompound 31T1010 is a 10% talc-filled polypropylene copolymer for general purpose applications.

TYPICAL PROPERTY VALUES

Revision 20211207

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---------------------------------------|----------------|----------|--------------|
| MECHANICAL | | | |
| Tensile Stress, yield, 50 mm/min | 23 | MPa | ISO 527 |
| Tensile Stress, break, 50 mm/min, 1A | 14 | MPa | ISO 527 |
| Tensile Strain, break, 50 mm/min | 51 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 1620 | MPa | ISO 527 |
| Flexural Modulus, 2 mm/min, 64mm span | 1700 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, notched 80*10*3 +23°C | 9 | kJ/m² | ISO 180/1A |
| Izod Impact, notched 80*10*3 0°C | 8 | kJ/m² | ISO 180/1A |
| Izod Impact, notched 80*10*3 -20°C | 6 | kJ/m² | ISO 180/1A |
| THERMAL | | | |
| CLTE, -30C to 100°C, flow | 84 | µm/mK | ISO 11359-2 |
| HDT 0.45 MPa, 80*10*4mm, Cut | 107 | °C | ISO 75-1&2 |
| HDT 1.8 MPa, 80*10*4mm, Cut | 58 | °C | ISO 75-1&2 |
| PHYSICAL | | | |
| Filler Content | 10 | % | ASTM D229 |
| Mold Shrinkage, flow, 24 hrs | 1.4 | % | ASTM D955 |
| Density | 0.96 | g/cm³ | ISO 1183 |
| Melt Flow Rate, 230°C/2.16 kg | 13 | g/10 min | ISO 1133 |
| INJECTION MOLDING | | | |
| Drying Temperature | 80 – 100 | °C | |
| Drying Time | 2 – 4 | Hrs | |
| Melt Temperature | 210 – 270 | °C | |
| Nozzle Temperature | 210 – 270 | °C | |
| Front - Zone 3 Temperature | 210 – 270 | °C | |
| Middle - Zone 2 Temperature | 200 – 250 | °C | |
| Rear - Zone 1 Temperature | 190 – 230 | °C | |
| Mold Temperature | 15 – 60 | °C | |
| Back Pressure | 1 – 1.5 | MPa | |

STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.





DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

