

# SABIC<sup>®</sup> PPCOMPOUND 9712

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

## DESCRIPTION

SABIC<sup>®</sup> PPcompound 9712 is a mineral filled, impact modified polypropylene TPO. This material combines high impact resistance, scratch resistance, and heat stability with interior automotive UV stability. This material can exhibit ductility at temperatures as low as -30 degrees C.

IMDS ID: 164207488

## TYPICAL PROPERTY VALUES

| PROPERTIES                                  | TYPICAL VALUES | UNITS             | TEST METHODS |
|---------------------------------------------|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                   |                |                   |              |
| <b>Melt flow rate (MFR)</b>                 |                |                   |              |
| at 230 °C and 2.16 kg                       | 14             | dg/min            | ISO 1133     |
| <b>Density</b> <sup>(1)</sup>               | 1030           | kg/m <sup>3</sup> | ISO 1183     |
| <b>Filler content</b>                       | 15             | %                 | SABIC method |
| <b>Mould shrinkage</b> <sup>(2)</sup>       |                |                   |              |
| 24 hours after injection moulding           | 0.43           | %                 | SABIC method |
| <b>MECHANICAL PROPERTIES</b> <sup>(1)</sup> |                |                   |              |
| <b>Tensile</b>                              |                |                   |              |
| Tensile modulus                             | 1860           | MPa               | ISO 527/1A   |
| stress at yield                             | 22             | MPa               | ISO 527/1A   |
| stress at break                             | 15             | MPa               | ISO 527/1A   |
| strain at break                             | 65             | %                 | ISO 527/1A   |
| <b>Flexural test</b>                        |                |                   |              |
| Flexural modulus                            | 2100           | MPa               | ISO 178/1A   |
| <b>Izod impact notched</b> <sup>(3)</sup>   |                |                   |              |
| at 23 °C                                    | 32             | kJ/m <sup>2</sup> | ISO 180/1A   |
| at 0 °C                                     | 18             | kJ/m <sup>2</sup> | ISO 180/1A   |
| at -20 °C                                   | 4              | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL PROPERTIES</b> <sup>(1)</sup>    |                |                   |              |
| <b>Heat deflection temperature</b>          |                |                   |              |
| at 1.80 MPa (HDT/A)                         | 56             | °C                | ISO 75       |
| at 0.45 MPa (HDT/B)                         | 103            | °C                | ISO 75       |
| <b>Coeff. of linear thermal expansion</b>   |                |                   |              |
| -30 °C to 100 °C                            | 58             | µm/mK             | ISO 11359-2  |

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

## QUALITY

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.





## 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.

