

# SABIC® PP COMPOUND 8500D

## PP COMPOUND IMPACT MODIFIED

### DESCRIPTION

SABIC® PP compound 8500D is an elastomer-modified mineral filled Polypropylene for automotive painted exterior applications. Its low density and excellent stiffness/impact balance makes it suited for weight reduction designs. Typical applications include automotive exterior parts such as zero gap automotive bumper applications with complex and large shapes.

SABIC® PP compound PP 8500D is a designated automotive grade

IMDS:1011706738

### TYPICAL PROPERTY VALUES

Revision 20211206

| PROPERTIES                                  | TYPICAL VALUES | UNITS             | TEST METHODS |
|---|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                   |                |                   |              |
| <b>Melt Flow Rate (MFR)</b>                 |                |                   |              |
| at 230 °C and 2.16 kg                       | 11             | dg/min            | ISO 1133     |
| <b>Density</b> <sup>(1)</sup>               | 1000           | kg/m <sup>3</sup> | ISO 1183     |
| <b>Filler content</b>                       | 14             | %                 | SABIC method |
| <b>Mould shrinkage</b> <sup>(2)</sup>       |                |                   |              |
| 24 hours after injection moulding           | 0.9            | %                 | SABIC method |
| <b>MECHANICAL PROPERTIES</b> <sup>(1)</sup> |                |                   |              |
| <b>Tensile test</b>                         |                |                   |              |
| Tensile modulus                             | 1300           | MPa               | ISO 527/1A   |
| stress at yield                             | 18             | MPa               | ISO 527/1A   |
| stress at break                             | 12             | MPa               | ISO 527/1A   |
| strain at break                             | 50             | %                 | ISO 527/1A   |
| <b>Flexural test</b>                        |                |                   |              |
| Flexural modulus                            |                | MPa               | ISO 178/1A   |
| <b>Izod impact notched</b> <sup>(3)</sup>   |                |                   |              |
| at 23 °C                                    | NB             | kJ/m <sup>2</sup> | ISO 180/1A   |
| at -20 °C                                   | 10             | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL PROPERTIES</b> <sup>(1)</sup>    |                |                   |              |
| <b>Heat deflection temperature</b>          |                |                   |              |
| at 0.45 MPa (HDT/B)                         |                | °C                | ISO 75       |

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

### 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.



+135-3858-6433 (GuangDong)  
+188-1699-6168 (ShangHai)  
+852-6957-5415 (HongKong)



#### 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.

