

# SABIC® PPCOMPOUND 1311

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

## DESCRIPTION

SABIC® PPcompound 1311 is an 11% talc-filled polypropylene for cosmetic applications such as lipstick, eyebrow pencils, mascara and powder boxes. This material has been designed to combine a good performance profile with good processing and high stiffness. 1311 is a designated FDA grade.

## 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                       | 30             | dg/min | ISO 1133     |
| <b>Density</b> <sup>(1)</sup>               | 968            | kg/m³  | ISO 1183     |
| <b>Filler content</b>                       | 11             | %      | SABIC method |
| <b>Mould shrinkage</b> <sup>(2)</sup>       |                |        |              |
| 24 hours after injection moulding           | 1              | %      | SABIC method |
| <b>MECHANICAL PROPERTIES</b> <sup>(1)</sup> |                |        |              |
| <b>Tensile test</b>                         |                |        |              |
| Tensile modulus                             | 2200           | MPa    | ISO 527/1A   |
| Stress at yield                             | 27             | MPa    | ISO 527/1A   |
| Stress at break                             | 20             | MPa    | ISO 527/1A   |
| Strain at break                             | 16             | %      | ISO 527/1A   |
| <b>Flexural test</b>                        |                |        |              |
| Flexural modulus                            | 2200           | MPa    | ISO 178/1A   |
| <b>Izod impact notched</b> <sup>(3)</sup>   |                |        |              |
| At 23 °C                                    | 3.5            | kJ/m²  | ISO 180/1A   |
| At 0 °C                                     | 2.5            | kJ/m²  | ISO 180/1A   |
| At -20 °C                                   | 2              | kJ/m²  | ISO 180/1A   |
| <b>THERMAL PROPERTIES</b> <sup>(1)</sup>    |                |        |              |
| <b>Heat deflection temperature</b>          |                |        |              |
| At 1.80 MPa (HDT/A)                         | 60             | °C     | ISO 75       |
| At 0.45 MPa (HDT/B)                         | 118            | °C     | ISO 75       |
| <b>Coeff. of linear thermal expansion</b>   |                |        |              |
| -30 °C to 100 °C                            | 80             | µm/mK  | ISO 11359-2  |

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

