

# SABIC® PPCOMPOUND 15T1020

PP COMPOUND MINERAL FILLED

## DESCRIPTION

SABIC® PPcompound 15T1020 is a 20% talc-filled polypropylene homopolymer. The material's high modulus and good thermal stabilization makes it suited for applications under the bonnet such as heating, ventilation and air conditioning housings.

SABIC® PPcompound 15T1020 is a designated automotive grade.

IMDS ID: 16486973

## TYPICAL PROPERTY VALUES

Revision 20220802

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	7	dg/min	ISO 1133
<b>Density <sup>(1)</sup></b>	1040	kg/m³	ISO 1183
<b>Filler content</b>	20	%	SABIC method
<b>Mould shrinkage <sup>(2)</sup></b>			
24 hours after injection moulding	1.2	%	SABIC method
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile</b>			
Tensile modulus	2600	MPa	ISO 527/1A
stress at yield	37	MPa	ISO 527/1A
stress at break	29	MPa	ISO 527/1A
strain at break	50	%	ISO 527/1A
<b>Flexural test</b>			
Flexural modulus	2700	MPa	ISO 178/1A
<b>Izod impact notched <sup>(3)</sup></b>			
at 23 °C	3.4	kJ/m²	ISO 180/1A
at 0 °C	2.7	kJ/m²	ISO 180/1A
at -20 °C	2.2	kJ/m²	ISO 180/1A
<b>THERMAL PROPERTIES <sup>(1)</sup></b>			
<b>Heat deflection temperature</b>			
at 0.45 MPa (HDT/B)	120	°C	ISO 75
<b>Coeff. of linear thermal expansion</b>			
-30 °C to 100 °C	75	µm/mK	ISO 11359-2

(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.

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