



# SABIC® PPCOMPOUND 19T1040

PP COMPOUND MINERAL FILLED

## DESCRIPTION

SABIC® PPcompound 19T1040 is a 40% talc-filled polypropylene homopolymer. The material's high fill grade makes for a very high stiffness. This combined with the high flow and good thermal stabilization makes it especially suited for complex injection molded applications requiring a very high modulus and high thermal stability.

SABIC® PPcompound 19T1040 is a designated automotive grade.

IMDS ID: 671989392

## TYPICAL PROPERTY VALUES

Revision 20240604

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	18	dg/min	ISO 1133
<b>Density <sup>(1)</sup></b>	1250	kg/m <sup>3</sup>	ISO 1183
<b>Filler content</b>	40	%	SABIC method
<b>Mould shrinkage <sup>(2)</sup></b>			
24 hours after injection moulding	0.8	%	SABIC method
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile</b>			
Tensile modulus	3600	MPa	ISO 527 / 1A
stress at yield	30	MPa	ISO 527 / 1A
stress at break	24	MPa	ISO 527 / 1A
strain at break	11	%	ISO 527 / 1A
<b>Flexural test</b>			
Flexural modulus	3600	MPa	ISO 178 / 1A
<b>Izod impact notched <sup>(3)</sup></b>			
at 23 °C	2.8	kJ/m <sup>2</sup>	ISO 180 / 1A
at 0 °C	1.6	kJ/m <sup>2</sup>	ISO 180 / 1A
at -20 °C	1.5	kJ/m <sup>2</sup>	ISO 180 / 1A
<b>THERMAL PROPERTIES <sup>(1)</sup></b>			
<b>Heat deflection temperature</b>			
at 0.45 MPa (HDT/B)	130	°C	ISO 75
<b>Coeff. of linear thermal expansion</b>			
-30 °C to 100 °C	68	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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