



# SABIC® PPCOMPOUND T5E-15T1020

PP COMPOUND MINERAL FILLED

## DESCRIPTION

SABIC® PPcompound T5E-15T1020 is a Polypropylene compound, which is formulated with 50 wt% recycled plastics. The grade is part of SABIC's TRUCIRCLE™ portfolio and services. The high modulus and good thermal stabilization makes the grade suited for applications under the bonnet such as heating, ventilation and air conditioning housing. The high melt flow is beneficial for efficient processing. SABIC® PPcompound T5E-15T1020 is a designated automotive grade. For SABIC® PPcompound T5E-15T1020 either PCR or PIR material is used. In case PCR is used IMDS ID: 1112449431 or in case PIR is used IMDS ID: 1092212161

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IMDS ID: 1092212161

## TYPICAL PROPERTY VALUES

Revision 20221219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	25	dg/min	ISO 1133
<b>Density</b> <sup>(1)</sup>	1040	kg/m³	ISO 1183
<b>Filler content</b>	20	%	SABIC method
<b>Mould shrinkage</b> <sup>(2)</sup>			
24 hours after injection moulding	1.2	%	SABIC method
<b>MECHANICAL PROPERTIES</b> <sup>(1)</sup>			
<b>Tensile test</b>			
Tensile modulus	2700	MPa	ISO 527/1A
stress at yield	33	MPa	ISO 527/1A
stress at break	30	MPa	ISO 527/1A
strain at break	10	%	ISO 527/1A
<b>Flexural test</b>			
Flexural modulus	2900	MPa	ISO 178/1A
<b>Izod impact notched</b> <sup>(3)</sup>			
at 23 °C	2.0	kJ/m²	ISO 180/1A
at 0 °C	1.5	kJ/m²	ISO 180/1A
at -20 °C	1.0	kJ/m²	ISO 180/1A
<b>THERMAL PROPERTIES</b> <sup>(1)</sup>			
<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	100	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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