

SABIC® PP COMPOUND T5E-3020B

PP COMPOUND MINERAL FILLED

DESCRIPTION

SABIC® PP compound T5E-3020B is a development grade, mineral filled Polypropylene compound, which is formulated with 50wt% post-industrial recycled plastics.

The grade is part of SABIC's TRUCIRCLE™ portfolio and services. High stiffness, combined with good thermal stabilization and excellent UV performance, makes the grade suitable for exterior applications.

SABIC® PP compound T5E-3020B is a designated automotive grade.

IMDS ID: 1168953224

TYPICAL PROPERTY VALUES

Revision 20221025

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	14	dg/min	ISO 1133
Density⁽¹⁾	1040	kg/m ³	ISO 1183
Filler content	20	%	SABIC method
Mould shrinkage⁽²⁾			
24 hours after injection moulding	1.1	%	SABIC method
MECHANICAL PROPERTIES⁽¹⁾			
Tensile test			
Tensile modulus	2300	MPa	ISO 527/1A
stress at yield	28	MPa	ISO 527/1A
stress at break	18	MPa	ISO 527/1A
strain at break	26	%	ISO 527/1A
Flexural test			
Flexural modulus	2500	MPa	ISO 178/1A
Izod impact notched⁽³⁾			
at 23 °C	3.5	kJ/m ²	ISO 180/1A
at 0 °C	2.7	kJ/m ²	ISO 180/1A
at -20 °C	2.3	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	60	°C	ISO 75
Coeff. of linear thermal expansion			
-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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