

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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	25	dg/min	ISO 1133
Density ⁽¹⁾	1040	kg/m³	ISO 1183
Filler content	20	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1.2	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
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
Flexural test			
Flexural modulus	2900	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
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
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	120	°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

