

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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	7	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			
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
Flexural test			
Flexural modulus	2700	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
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
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	75	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

