

SABIC® PP COMPOUND 9180

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 9180 is an elastomer-modified mineral filled Polypropylene for automotive interior applications. This material has been designed to combine a good performance profile with good processing.

SABIC® PPcompound 9180 is a designated automotive grade.

IMDS ID: 284711062

TYPICAL PROPERTY VALUES

Revision 20211207

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	24	dg/min	ISO 1133
Density ⁽¹⁾	1020	kg/m ³	ISO 1183
Filler content	20	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.9	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1900	MPa	ISO 527/1A
stress at yield	25	MPa	ISO 527/1A
stress at break	15	MPa	ISO 527/1A
strain at break	35	%	ISO 527/1A
Flexural test			
Flexural modulus	2050	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	25	kJ/m ²	ISO 180/1A
at 0 °C	10	kJ/m ²	ISO 180/1A
at -20 °C	5	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	110	°C	ISO 75
Vicat Softening Temperature			
at 10 N (VST/A)	-	°C	ISO 306/A
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

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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