

# SABIC® PPCOMPOUND 9116

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

## DESCRIPTION

SABIC® PPcompound 9116 is an elastomer-modified mineral filled Polypropylene for automotive interior applications. This material combines high scratch resistance, high impact and good cold temperature ductility. Typical applications include esthetical automotive interior parts such as instrument panels with deployable passenger airbag.

SABIC® PPc 9116 is a designated automotive grade.

IMDS ID: 19122014

## TYPICAL PROPERTY VALUES

Revision 20210402

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	9	dg/min	ISO 1133
<b>Density</b> <sup>(1)</sup>	1020	kg/m³	ISO 1183
<b>Filler content</b>	18	%	SABIC method
<b>Mould shrinkage</b> <sup>(2)</sup>			
24 hours after injection moulding	0.6	%	SABIC method
<b>MECHANICAL PROPERTIES</b> <sup>(1)</sup>			
<b>Tensile test</b>			
Tensile modulus	1500	MPa	ISO 527/1A
stress at yield	17	MPa	ISO 527/1A
stress at break	13	MPa	ISO 527/1A
strain at break	200	%	ISO 527/1A
<b>Flexural test</b>			
Flexural modulus	1550	MPa	ISO 178/1A
<b>Izod impact notched</b> <sup>(3)</sup>			
at 23 °C	50	kJ/m²	ISO 180/1A
at 0 °C	-	kJ/m²	ISO 180/1A
at -20 °C	5.5	kJ/m²	ISO 180/1A
<b>THERMAL PROPERTIES</b> <sup>(1)</sup>			
<b>Heat deflection temperature</b>			
at 0.45 MPa (HDT/B)	-	°C	ISO 75
<b>Coeff. of linear thermal expansion</b>			
-30 °C to 100 °C	64	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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