



# SABIC<sup>®</sup> PPCOMPOUND 5521

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

## DESCRIPTION

SABIC<sup>®</sup> PPcompound 5521 is a mineral filled, impact modified polypropylene TPO. This material combines good flow with exterior automotive weathering stability. The general purpose black color product is offered without weathering stability for good paintability. The weatherable product was originally designed for unpainted automotive exterior bumper cap and step pad applications where high flexibility is required.

IMDS ID: 163257209

## TYPICAL PROPERTY VALUES

Revision 20190718

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt flow rate (MFR)</b>			
at 230 °C and 2.16 kg	19	dg/min	ISO 1133
<b>Density <sup>(1)</sup></b>	900	kg/m <sup>3</sup>	ISO 1183
<b>Mould shrinkage <sup>(2)</sup></b>			
24 hours after injection moulding	-	%	SABIC method
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile</b>			
Tensile modulus	850	MPa	ISO 527/1A
stress at yield	18	MPa	ISO 527/1A
stress at break	13	MPa	ISO 527/1A
strain at break	160	%	ISO 527/1A
<b>Flexural test</b>			
Flexural modulus	890	MPa	ISO 178/1A
<b>Izod impact notched <sup>(3)</sup></b>			
at 23 °C	49	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	11	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	9	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES <sup>(1)</sup></b>			
<b>Heat deflection temperature</b>			
at 1.80 MPa (HDT/A)	51	°C	ISO 75
at 0.45 MPa (HDT/B)	86	°C	ISO 75
<b>Coeff. of linear thermal expansion</b>			
-30 °C to 100 °C	129	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

## QUALITY

SABIC is fully certified in accordance with the internationally accepted quality standard ISO9001.



## 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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