

# SABIC® PPCOMPOUND 5450

## PP COMPOUND MINERAL FILLED IMPACT MODIFIED

### DESCRIPTION

SABIC® PPcompound 5450 is a low density modified polypropylene. Material properties include very high flow, high impact and high stiffness with low shrinkage and CLTE and good process-ability. The material exhibits good esthetical behaviour with low tiger stripes visibility. Typical applications include automotive exterior parts such as zero gap automotive bumper applications with complex and large shapes. It can be used in painted and unpainted applications with UV stabilization added on demand.

SABIC® PPcompound 5450 is a designated automotive grade.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt flow rate (MFR)			
at 230 °C and 2.16 kg	20	dg/min	ISO 1133
Density <sup>(1)</sup>	930	kg/m <sup>3</sup>	ISO 1183
Filler content	5	%	SABIC method
Mould shrinkage <sup>(2)</sup>			
24 hours after injection moulding	0.7	%	SABIC method
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile test</b>			
Tensile modulus	1050	MPa	ISO 527/1A
stress at yield	20	MPa	ISO 527/1A
stress at break	22	MPa	ISO 527/1A
strain at break	500	%	ISO 527/1A
<b>Flexural test</b>			
Flexural modulus	1000	MPa	ISO 178/1A
<b>Izod impact notched <sup>(3)</sup></b>			
at 23 °C	N.B.	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	N.B.	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	N.B.	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES <sup>(1)</sup></b>			
<b>Heat deflection temperature</b>			
at 0.45 MPa (HDT/B)	90	°C	ISO 75
<b>Coeff. of linear thermal expansion</b>			
-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



## 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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