

# SABIC® PPCOMPOUND 5450/10

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

## DESCRIPTION

SABIC® PPcompound 5450/10 is a development grade, elastomer-modified mineral filled Polypropylene for automotive exterior applications. This material has been designed to combine a good stiffness and excellent impact performance with good processing and surface esthetics. This grade is UV stabilised and is suitable for unpainted applications.

5450/10 is a designated automotive grade.

IMDS:1001596344

## TYPICAL PROPERTY VALUES

Revision 20211206

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	35	dg/min	ISO 1133
<b>Density</b> <sup>(1)</sup>	970	kg/m³	ISO 1183
<b>Filler content</b>	11	%	SABIC method
<b>Mould shrinkage</b> <sup>(2)</sup>			
24 hours after injection moulding	0.8	%	SABIC method
<b>MECHANICAL PROPERTIES</b> <sup>(1)</sup>			
<b>Tensile test</b>			
Tensile modulus	1350	MPa	ISO 527/1A
stress at yield	18	MPa	ISO 527/1A
stress at break	12	MPa	ISO 527/1A
strain at break	60	%	ISO 527/1A
<b>Flexural test</b>			
Flexural modulus	1475	MPa	ISO 178/1A
<b>Izod impact notched</b> <sup>(3)</sup>			
at 23 °C	N.B	kJ/m²	ISO 180/1A
at 0 °C	N.B	kJ/m²	ISO 180/1A
at -20 °C	7	kJ/m²	ISO 180/1A
<b>THERMAL PROPERTIES</b> <sup>(1)</sup>			
<b>Heat deflection temperature</b>			
at 0.45 MPa (HDT/B)	94	°C	ISO 75
<b>Coeff. of linear thermal expansion</b>			
-30 °C to 100 °C		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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