



# SABIC® PPCOMPOUND PHC22 / 20

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

## DESCRIPTION

SABIC® PPcompound PHC22/20 is a UV stabilized talcum filled grade typically used in automotive interior applications. This filled copolymer has an excellent impact and stiffness although limited performance in scratch and flow.

SABIC®PPcompound PHC22/20 is a designated automotive grade.

IMDS ID: 16486778

## TYPICAL PROPERTY VALUES

Revision 20230615

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 5 kg	18	dg/min	ISO 1133
at 230 °C and 2.16 kg	3.5	dg/min	ISO 1133
<b>Density</b> <sup>(1)</sup>	1040	kg/m <sup>3</sup>	ISO 1183
<b>Filler content</b>	20	%	SABIC method
<b>Mould shrinkage</b> <sup>(2)</sup>			
24 hours after injection moulding	1.2	%	SABIC method
<b>MECHANICAL PROPERTIES</b> <sup>(1)</sup>			
<b>Tensile test</b>			
Tensile modulus	1950	MPa	ISO 527/1A
stress at yield	25	MPa	ISO 527/1A
stress at break	18	MPa	ISO 527/1A
strain at break	100	%	ISO 527/1A
<b>Flexural test</b>			
Flexural modulus	1900	MPa	ISO 178/1A
<b>Izod impact notched</b> <sup>(3)</sup>			
at 23 °C	15	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	6.0	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	5.0	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES</b> <sup>(1)</sup>			
<b>Heat deflection temperature</b>			
at 0.45 MPa (HDT/B)	105	°C	ISO 75
<b>Coeff. of linear thermal expansion</b>			
23 °C to 80 °C	-	µm/mK	ASTM D696
-30 °C to 30 °C	80	µm/mK	ASTM D696

(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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