

SABIC® PP COMPOUND PHC22-20

PP COMPOUND MF IMPACT MODIFIED
REGION EUROPE

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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt flow rate (MFR)			
at 230 °C and 5 kg	18	dg/min	ISO 1133
at 230 °C and 2.16 kg	3.5	dg/min	ISO 1133
Density (1)	1040	kg/m ³	ISO 1183
Filler content	20	%	SABIC method
Mould shrinkage (2)			
24 hours after injection moulding	1.2	%	SABIC method
MECHANICAL PROPERTIES (1)			
Tensile test			
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
Flexural test			
Flexural modulus	1900	MPa	ISO 178/1A
Izod impact notched (3)			
at 23 °C	15	kJ/m ²	ISO 180/1A
at 0 °C	6.0	kJ/m ²	ISO 180/1A
at -20 °C	5.0	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES (1)			



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Heat deflection temperature			
at 0.45 MPa (HDT/B)	105	°C	ISO 75
Coeff. of linear thermal expansion			
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

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.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.

