

SABIC® PP COMPOUND PHC22/20

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PP compound 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® PP compound PHC22/20 is a designated automotive grade.

IMDS ID: 16486778

TYPICAL PROPERTY VALUES

Revision 20230615

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⁾	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⁾			
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



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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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