

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

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⁾			
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