

SABIC® PPCOMPOUND 1200

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 1200 is a mineral filled polypropylene. This material combines high flow with high stiffness properties. The high modulus and high melt flow makes the grade suited for applications of large part such as base or lid for e-Commerce.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
At 230 °C and 2.16 kg	23	dg/min	ISO 1133
Density ⁽¹⁾	970	kg/m ³	ISO 1183
Filler content	10	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1.2	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1400	MPa	ISO 527/1A
Stress at yield	20	MPa	ISO 527/1A
Stress at break	16	MPa	ISO 527/1A
Strain at break	18	%	ISO 527/1A
Flexural test			
Flexural modulus	1450	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
At 23 °C	10	kJ/m ²	ISO 180/1A
At 0 °C	6	kJ/m ²	ISO 180/1A
At -20 °C	4.5	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
At 1.80 MPa (HDT/A)	54	°C	ISO 75
At 0.45 MPa (HDT/B)	93	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	120	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

