

SABIC® PPCOMPOUND 1030D

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC®PPcompound 1030D is a 30% mineral filled Polypropylene, developed for appliances market. Material properties include an excellent stiffness and high thermal stabilization. This material has been designed to combine a good heat aging performance with good surface aesthetics making it suitable for visible dishwasher's interior parts.

SABIC®PPcompound 1030D is a designated injection molding grade for Appliances applications, this grade is UL listed under UL94HB, UL746B and UL749

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	3.5	dg/min	ISO 1133
Density ⁽¹⁾	1135	kg/m³	ISO 1183
Filler content	30	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1.1	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	3300	MPa	ISO 527/1A
stress at yield	29	MPa	ISO 527/1A
stress at break	15	MPa	ISO 527/1A
strain at break	26	%	ISO 527/1A
Flexural test			
Flexural modulus	3000	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	3.5	kJ/m²	ISO 180/1A
at 0 °C	3.0	kJ/m²	ISO 180/1A
at -20 °C	2.5	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	125	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	80	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

