

SABIC® PPCOMPOUND 5020

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 5020 is a modified Polypropylene which combines high impact, good stiffness and high flow. This material is available in natural and colored form, both UV-stabilized for use in interior automotive applications.

SABIC® PPcompound 5020 is a designated automotive grade.

IMDS ID: 229129721

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	25	dg/min	ISO 1133
Density ⁽¹⁾	905	kg/m³	ISO 1183
Filler content	0	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1.4	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1000	MPa	ISO 527/1A
stress at yield	19	MPa	ISO 527/1A
stress at break	14	MPa	ISO 527/1A
strain at break	40	%	ISO 527/1A
Flexural test			
Flexural modulus	1050	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	45	kJ/m²	ISO 180/1A
at -20 °C	7	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	85	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	118	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

