



SABIC® PPCOMPOUND 19T1040

PP COMPOUND MINERAL FILLED

DESCRIPTION

SABIC® PPcompound 19T1040 is a 40% talc-filled polypropylene homopolymer. The material's high fill grade makes for a very high stiffness. This combined with the high flow and good thermal stabilization makes it especially suited for complex injection molded applications requiring a very high modulus and high thermal stability.

SABIC® PPcompound 19T1040 is a designated automotive grade.

IMDS ID: 671989392

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	18	dg/min	ISO 1133
Density ⁽¹⁾	1250	kg/m³	ISO 1183
Filler content	40	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.8	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile			
Tensile modulus	3600	MPa	ISO 527/1A
stress at yield	30	MPa	ISO 527/1A
stress at break	24	MPa	ISO 527/1A
strain at break	11	%	ISO 527/1A
Flexural test			
Flexural modulus	3600	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	2.8	kJ/m²	ISO 180/1A
at 0 °C	1.6	kJ/m²	ISO 180/1A
at -20 °C	1.5	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	130	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	68	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break