

SABIC® PPCOMPOUND T2E-19T1040

PP COMPOUND MINERAL FILLED

DESCRIPTION

SABIC® PPcompound T2E-19T1040 is a Polypropylene compound, which is formulated with 25 wt% recycled plastics. The grade is part of SABIC's TRUCIRCLE™ portfolio and services. The material's higher filler level results in very high stiffness. High stiffness combined with superior flow and good thermal stabilization makes the grade especially suited for complex injectionmolding applications requiring very high modulus and high thermal stability.

IMDS ID 1092211090

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	30	dg/min	ISO 1133
Density ⁽¹⁾	1240	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 test			
Tensile modulus	4000	MPa	ISO 527/1A
stress at yield	28	MPa	ISO 527/1A
stress at break	26	MPa	ISO 527/1A
strain at break	4	%	ISO 527/1A
Flexural test			
Flexural modulus	4200	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	2.0	kJ/m²	ISO 180/1A
at 0 °C	1.5	kJ/m²	ISO 180/1A
at -20 °C	1.0	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	75	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break