

SABIC[®] PPCOMPOUND 9712

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC[®] PPcompound 9712 is a mineral filled, impact modified polypropylene TPO. This material combines high impact resistance, scratch resistance, and heat stability with interior automotive UV stability. This material can exhibit ductility at temperatures as low as -30 degrees C.

IMDS ID: 164207488

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt flow rate (MFR)			
at 230 °C and 2.16 kg	14	dg/min	ISO 1133
Density ⁽¹⁾	1030	kg/m ³	ISO 1183
Filler content	15	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.43	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile			
Tensile modulus	1860	MPa	ISO 527/1A
stress at yield	22	MPa	ISO 527/1A
stress at break	15	MPa	ISO 527/1A
strain at break	65	%	ISO 527/1A
Flexural test			
Flexural modulus	2100	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
at 23 °C	32	kJ/m ²	ISO 180/1A
at 0 °C	18	kJ/m ²	ISO 180/1A
at -20 °C	4	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	56	°C	ISO 75
at 0.45 MPa (HDT/B)	103	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	58	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

