SABIC® PPCOMPOUND 9116

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 9116 is an elastomer-modified mineral filled Polypropylene for automotive interior applications. This material combines high scratch resistance, high impact and good cold temperature ductility. Typical applications include esthetical automotive interior parts such as instrument panels with deployable passenger airbag.

SABIC® PPc 9116 is a designated automotive grade.

IMDS ID: 19122014

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	9	dg/min	ISO 1133
Density (1)	1020	kg/m³	ISO 1183
Filler content	18	%	SABIC method
Mould shrinkage (2)			
24 hours after injection moulding	0.6	%	SABIC method
MECHANICAL PROPERTIES (1)			
Tensile test			
Tensile modulus	1500	MPa	ISO 527/1A
stress at yield	17	MPa	ISO 527/1A
stress at break	13	MPa	ISO 527/1A
strain at break	200	%	ISO 527/1A
Flexural test			
Flexural modulus	1550	MPa	ISO 178/1A
Izod impact notched (3)			
at 23 °C	50	kJ/m²	ISO 180/1A
at 0 °C	-	kJ/m²	ISO 180/1A
at -20 °C	5.5	kJ/m²	ISO 180/1A
THERMAL PROPERTIES (1)			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	-	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	64	µm/mK	ISO 11359-2

(1) Injection molded sample ISO527-1A
(2) Injection molded plaque 65x65x3.2mm
(3) N.B.: No Break