SABIC® PPCOMPOUND 8900

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 8900 is a mineral filled modified polypropylene. This material combines high flow with a very high stiffness and high impact, as well as a very low shrinkage and CLTE. The high stiffness and low CLTE makes the material suited for high demanding applications. Typical applications include automotive exterior parts such as large thin wall zero gap bumper designs and (offline painted) vertical body panels. It can be used in painted and unpainted applications with UV stabilization added on demand.

SABIC® PPcompound 8900 is a designated automotive grade.

IMDS ID: 62202096

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	20	dg/min	ISO 1133
Density (1)	1080	kg/m³	ISO 1183
Filler content	25	%	SABIC method
Mould shrinkage (2)			
24 hours after injection moulding	0.6	%	SABIC method
MECHANICAL PROPERTIES (1)			
Tensile test			
Tensile modulus	2600	MPa	ISO 527/1A
stress at yield	24	MPa	ISO 527/1A
stress at break	15	MPa	ISO 527/1A
strain at break	50	%	ISO 527/1A
Flexural test			
Flexural modulus	2300	MPa	ISO 178/1A
Izod impact notched (3)			
at 23 °C	30	kJ/m²	ISO 180/1A
at 0 °C	7	kJ/m²	ISO 180/1A
at -20 °C	3.5	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	50	µm/mK	ISO 11359-2

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