SABIC® PPCOMPOUND 5405

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 5405 is a modified polypropylene compound. Material properties include excellent flow, high impact and good stiffness. The material exhibits excellent esthetical behaviour with very low tiger stripes visibility. Typical applications include automotive exterior parts such as large complex shaped bumpers and trims which can be painted, partially painted or unpainted.

SABIC® PPcompound 5405 is a designated automotive grade.

IMDS ID: 16484475

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)	905	kg/m³	ISO 1183
Filler content	2.5	%	SABIC method
Mould shrinkage (2)			
24 hours after injection moulding	1.2	%	SABIC method
MECHANICAL PROPERTIES (1)			
Tensile test			
Tensile modulus	1150	MPa	ISO 527/1A
stress at yield	20	MPa	ISO 527/1A
stress at break	18	MPa	ISO 527/1A
strain at break	300	%	ISO 527/1A
Flexural test			
Flexural modulus	1200	MPa	ISO 178/1A
Izod impact notched (3)			
at 23 °C	N.B.	kJ/m²	ISO 180/1A
at 0 °C	10	kJ/m²	ISO 180/1A
at -20 °C	8	kJ/m²	ISO 180/1A
THERMAL PROPERTIES (1)			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	95	°C	ISO 75
Coeff. of linear thermal expansion			
23 °C to 80 °C	125	µm/mK	ASTM D696
-30 °C to 30 °C	90	µm/mK	ASTM D696

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