SABIC® PPCOMPOUND 7705

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 7705 is a mineral filled modified polypropylene. This material combines high scratch resistance, high stiffness, good impact and high flow. This material has a very broad processing window combined with good esthetical performance. Typical applications include esthetical automotive interior parts such as instrument panels, lower and upper dashboard, door panels and trim.

SABIC® PPcompound 7705 is a designated automotive grade.

IMDS ID: 16161010

TYPICAL PROPERTY VALUES

Revision 20211207

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	22	dg/min	ISO 1133
Density (1)	1040	kg/m³	ISO 1183
Mould shrinkage (2)			
24 hours after injection moulding	0.85	%	SABIC method
MECHANICAL PROPERTIES (1)			
Tensile			
Tensile modulus	1800	MPa	ISO 527/1A
stress at yield	22	MPa	ISO 527/1A
stress at break	17	MPa	ISO 527/1A
strain at break	35	%	ISO 527/1A
Flexural test			
Flexural modulus	1900	MPa	ISO 178/1A
Izod impact notched (3)			
at 23 °C	20	kJ/m²	ISO 180/1A
at 0 °C	6	kJ/m²	ISO 180/1A
at -20 °C	4	kJ/m²	ISO 180/1A
THERMAL PROPERTIES (1)			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	105	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	73	µm/mK	ISO 11359-2

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

STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.

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