

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 behavior with very low tiger stripes visibility.

SABIC® PPcompound 5405 is a designated automotive grade.

IMDS ID: 16484475

TYPICAL PROPERTY VALUES

Revision 20260217

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
Charpy Impact Strength Notched			
at 23 °C	N.B.	kJ/m²	ISO 179/1eA
Charpy impact unnotched			
at -40 °C	N.B.	kJ/m²	ISO 179/1eU
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

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CHEMISTRY THAT MATTERS™



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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