

SABIC® PPCOMPOUND 8503B

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 8503B is a mineral filled impact modified Polypropylene for automotive exterior applications. This material has been designed to combine excellent paint adhesions, high modulus and high impact.

SABIC® PPcompound 8503B is a designated automotive grade

IMDS ID:1387567195

TYPICAL PROPERTY VALUES

Revision 20250122

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
At 230 °C and 2.16 kg	10	dg/min	ISO 1133
Density ⁽¹⁾	1040	kg/m³	ISO 1183
Filler content	20	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.77	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1650	MPa	ISO 527/1A
Stress at yield	20	MPa	ISO 527/1A
Stress at break	12	MPa	ISO 527/1A
Strain at break	40	%	ISO 527/1A
Flexural test			
Flexural modulus	1700	MPa	ISO 178/1A
Izod impact notched ⁽³⁾			
At 23 °C	40	kJ/m²	ISO 180/1A
At 0 °C	18	kJ/m²	ISO 180/1A
At -20 °C	7	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
At 1.80 MPa (HDT/A)	100	°C	ISO 75
At 0.45 MPa (HDT/B)	55	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	70	µm/mK	ISO 11359-2

(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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