

SABIC® PP COMPOUND 8503

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPcompound 8503 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 8503 is a designated automotive grade.

IMDS ID: 535534809

TYPICAL PROPERTY VALUES

Revision 20211208

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	6	dg/min	ISO 1133
Density ⁽¹⁾	1040	kg/m ³	ISO 1183
Filler content	20	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.75 – 0.8	%	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	N.B.	kJ/m ²	ISO 180/1A
at 0 °C	-	kJ/m ²	ISO 180/1A
at -20 °C	-	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	-	°C	ISO 75
Coeff. of linear thermal expansion			
20 °C to 80 °C	90	µm/mK	ASTM D696

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2 mm

(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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