

SABIC® PPCOMPOUND 8501

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC® PPCOMPOUND 8501 is an elastomer-modified mineral filled Polypropylene for automotive painted exterior applications. Its low density and excellent stiffness impact balance makes it suited for weight reduction designs. Typical applications include automotive exterior parts such as zero gap automotive bumper applications with complex and large shapes.

SABIC® PPCOMPOUND 8501 is a designated automotive grade.

IMDS ID: 488975880

TYPICAL PROPERTY VALUES

Revision 20260224

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	9	dg/min	ISO 1133
Density ⁽¹⁾	980	kg/m³	ISO 1183
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1 – 1.1	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1200	MPa	ISO 527 / 1A
stress at yield	18	MPa	ISO 527 / 1A
stress at break	12	MPa	ISO 527 / 1A
strain at break	100	%	ISO 527 / 1A
Flexural test			
Flexural modulus	1250	MPa	ISO 178 / 1A
Izod impact notched ⁽³⁾			
at 23 °C	N.B.	kJ/m²	ISO 180 / 1A
at 0 °C	N.B.	kJ/m²	ISO 180 / 1A
at -20 °C	10	kJ/m²	ISO 180 / 1A
Charpy Impact Strength Notched			
at 23 °C	NB	kJ/m²	ISO 179 / 1eA
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	98	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100 °C	80	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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