

SABIC® PP COMPOUND 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 20211208

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/m ³	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/m ²	ISO 180/1A
at 0 °C	N.B.	kJ/m ²	ISO 180/1A
at -20 °C	10	kJ/m ²	ISO 180/1A
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

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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