

SABIC® PPCOMPOUND 8500C

PP COMPOUND MINERAL FILLED IMPACT MODIFIED

DESCRIPTION

SABIC PPcompound 8500C 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 8500C is a designated automotive grade.

IMDS ID: 853083058

TYPICAL PROPERTY VALUES

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⁾	970	kg/m³	ISO 1183
Filler content	11	%	SABIC method
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test			
Tensile modulus	1580	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 ⁽²⁾			
at 23 °C	N.B	kJ/m²	ISO 180/1A
at -20 °C	8	kJ/m²	ISO 180/1A
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	100	°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) N.B.: No Break

