



SABIC® PPcompound 8500

PP compound MF impact modified for Automotive injection moulding

Description:

SABIC® PPcompound 8500 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 8500 is a designated automotive grade.

IMDS ID 154169376

Typical values

Revision 20150617

Properties	Unit (Si)	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 230 °C and 2.16 kg	dg/min	9	ISO 1133
Density	kg/m ³	1000	ISO 1183
Mould shrinkage ¹⁾ 24 hours after injection moulding	%	0,9	SABIC method
Mechanical properties ¹⁾			
Tensile test ²⁾ stress at yield	MPa	18	ISO 527
stress at break	MPa	12	
strain at break	%	100	
Flexural test ³⁾ Flexural modulus	MPa	1500	ASTM D790
Izod impact notched ⁴⁾ at 23 °C	kJ/m ²	NB	ISO 180/4A
at 0 °C	kJ/m ²	NB	
at -20 °C	kJ/m ²	10	
Charpy impact notched ⁵⁾ at 23 °C	kJ/m ²	NB	ISO 179/1eA
Charpy impact unnotched at -40 °C	kJ/m ²	-	ISO 179/1eU
Hardness Shore D	-	63	ISO 868
Thermal properties ¹⁾			
Heat deflection temperature at 0.45 MPa (HDT/B)	°C	100	ISO 75/B
Vicat softening temperature at 10 N (VST/A)	°C	130	ISO 306/A
Coeff. of linear thermal expansion ¹⁾ 23 °C to 80 °C	µm/mK	95	ASTM D696
-30 °C to 30 °C	µm/mK	65	

1) All measurements on injection molded samples.

2) Speed of testing: 50 mm/min; Specimen ISO 527/1A

3) 3-point loading

4) N.B.: No Break

5) U-shaped notch; N.B.: No Break



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Quality:

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.

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.

Disclaimer. The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

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Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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