

SABIC® PPcompound 8500

Polypropylene
SABIC

PROSPECTOR®

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Technical Data

Product 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

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• SABIC • SABIC® PPcompound
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Uses	• Automotive Exterior Parts

Physical	Nominal Value Unit	Test Method
Density	1.00 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0 g/10 min	ISO 1133
Molding Shrinkage ² (24 hr, 3.20 mm)	0.90 %	Internal Method

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (Injection Molded)	1450 MPa	ISO 527-1/1A
Tensile Stress		ISO 527-2/1A
Yield, Injection Molded	18.0 MPa	
Break, Injection Molded	12.0 MPa	
Tensile Strain (Break, Injection Molded)	100 %	ISO 527-2/1A
Flexural Modulus ³ (Injection Molded)	1500 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
23°C, Injection Molded	No Break	
Notched Izod Impact Strength		ISO 180/1A
-20°C, Injection Molded	10 kJ/m ²	
0°C, Injection Molded	No Break	
23°C, Injection Molded	No Break	

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	63	ISO 868

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load ⁴		ISO 75-2/B
0.45 MPa, Unannealed	100 °C	
Vicat Softening Temperature ⁴	130 °C	ISO 306/A
CLTE - Flow		
-30 to 30°C	6.5E-5 cm/cm/°C	ASTM D696
23 to 80°C	9.5E-5 cm/cm/°C	ASTM D696
-30 to 100°C	8.0E-5 cm/cm/°C	ISO 11359-2

Additional Information	Nominal Value Unit	Test Method
Filler Content	15 %	Internal Method

Notes

¹ Typical properties: these are not to be construed as specifications.

² 65x65x3.2 mm

³ Type 1A

⁴ Injection Molded



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Where to Buy

Supplier

SABIC

Web: <http://www.sabic.com/>

Distributor

3Polymer (Guangzhou) Chemical Technology Co., Ltd.

Telephone: +86-20-3466-7988

Web: <http://3polymer.com>

Availability: China

AECTRA

Telephone: +33-4-72-54-36-42

Web: <https://www.aectra.fr/>

Availability: Bulgaria, France, Romania

AGI-Augusto Guimarães & Irmão

Telephone: +351-22753-7400

Web: <https://www.agi.pt/en/>

Availability: Portugal

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

GRÄSSLIN

Telephone: +49-7721-4040-261

Web: <https://www.graesslin-kunststoffe.de>

Availability: Germany

Guzmán Polymers

Telephone: +34-963-992-400

Web: <https://www.guzmanglobal.com/en/productos/plastics/>

Availability: Italy, Spain, Turkey

Lenorplastics

Telephone: +41-61-706-11-11

Web: <https://www.lenorplastics.ch>

Availability: Switzerland

Nexeo Plastics

Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at www.nexeoplastics.com.

Telephone: 833-446-3936

Web: <https://www.nexeoplastics.com/>

Availability: North America

Plastic Service Centers

Telephone: 586-307-3900

Web: <http://www.plasticservice.com/>

Availability: North America

Plastoplan

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Austria, Czech Republic, Hungary, Poland, Slovakia

POLYMIX

POLYMIX is a Pan European distribution company. Contact POLYMIX for availability of individual products by country.

Telephone: +33-3-8920-1380

Web: <http://www.polymix.eu/>

Availability: France

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

