

SABIC® PP 56M10

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)



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Technical Data

Product Description

This grade has a high impact resistance, even at low temperatures, and a high stiffness. It is used in a variety of applications e.g. containers and crates & boxes. It is also used in automotive components, like for example battery cases.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E111275-219025
Search for UL Yellow Card	• Saudi Basic Industries Corporation (SABIC) • SABIC® PP
Availability	• Europe
Features	• Block Copolymer • High Impact Resistance • High Stiffness • Low Temperature Impact Resistance
Uses	• Automotive Applications • Battery Cases • Containers • Crates
UL File Number	• E111275
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	0.905 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.2 g/10 min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Stress		ISO 527-2
Yield	32.0 MPa	
Break	30.0 MPa	
Tensile Strain (Break)	600 %	ISO 527-2
Flexural Modulus	1550 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-20°C	3.0 kJ/m ²	
0°C	5.0 kJ/m ²	
23°C	10 kJ/m ²	
Notched Izod Impact Strength		ISO 180/4A
-20°C	4.0 kJ/m ²	
0°C	5.0 kJ/m ²	
23°C	10 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D)	68	ISO 868

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	89.0 °C	ISO 75-2/B
1.8 MPa, Unannealed	53.0 °C	ISO 75-2/A
Vicat Softening Temperature		
--	147 °C	ISO 306/A
--	77.0 °C	ISO 306/B

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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

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Saudi Basic Industries Corporation (SABIC)

Where to Buy

Supplier

Saudi Basic Industries Corporation (SABIC)

Riyadh, Kingdom of Saudi Arabia

Telephone: 966-1-225-8000

Web: <http://plastics.sabic.eu/>

Distributor

GAZECHIM PLASTIQUES

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

Telephone: +33-4-67-49-55-37

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

Availability: France

RESINEX Group

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

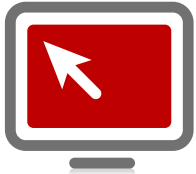
Telephone: +32-14-672511

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

Availability: Europe



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Prospector Plastics Database - www.ides.com/prospector

Prospector is a searchable online database that includes 85,000 data sheets from 875 manufacturers and 44,000 UL yellow cards. Each data sheet includes property, processing and supplier contact information. Prospector is relied on by nearly 400,000 design engineers and plastics processors. Using Prospector, they save time with plastic material selection by quickly and easily referencing technical information critical to the success of their products.

"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"

– Birgit Elvardt Bader, Production Manager, Micotron

Power Searches

Property Search – select plastics by 500 key properties and design parameters.

Alternative Resins Search – find replacement plastics within minutes.

Automotive Plastics Search – easily locate automotive approved plastics.

Curve Data – view, overlay and export curve data.



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– Kevin Chase, Owner & President, Chase Plastics



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