

SABIC® PP PHC31

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)



IDES | Prospector

ides.com/prospector

Technical Data

Product Description

This grade combines high stiffness with good impact strength. Its excellent flow properties and narrow molecular weight distribution allows fast cycle-times and injection moulding of articles demanding low warpage and high dimensional stability. Typical applications are pails, containers, crates & boxes and automotive components.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E111275-219030
Search for UL Yellow Card	• Saudi Basic Industries Corporation (SABIC) • SABIC® PP
Availability	• Europe
Features	• Block Copolymer • Fast Molding Cycle • Good Dimensional Stability • Good Flow • Good Impact Resistance • High Stiffness • Low Warpage • Narrow Molecular Weight Distribution
Uses	• Automotive Applications • Containers • Crates • Pails
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)	15 g/10 min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Stress		ISO 527-2
Yield	26.0 MPa	
Break	27.0 MPa	
Tensile Strain (Break)	600 %	ISO 527-2
Flexural Modulus	1350 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-20°C	3.0 kJ/m ²	
0°C	4.5 kJ/m ²	
23°C	7.5 kJ/m ²	
Notched Izod Impact Strength		ISO 180/4A
-20°C	3.5 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)	65	ISO 868

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	83.0 °C	ISO 75-2/B
1.8 MPa, Unannealed	52.0 °C	ISO 75-2/A
Vicat Softening Temperature		
--	147 °C	ISO 306/A
--	71.0 °C	ISO 306/B

SABIC® PP PHC31

Polypropylene Impact Copolymer

Saudi Basic Industries Corporation (SABIC)

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.

SABIC® PP PHC31

Polypropylene Impact Copolymer

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.

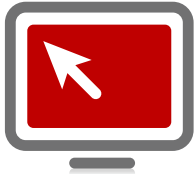
Telephone: +32-14-672511

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

Availability: Europe



Founded in 1986 and based in Laramie, Wyoming, IDES is now part of the UL family of companies. UL is a premier global independent safety science company with more than a century of proven history. Employing nearly 10,000 professionals in over 100 countries, UL has five distinct business units -- Product Safety, Environment, Life & Health, Knowledge Services and Verification Services -- to meet the expanding needs of our customers and to deliver on our public safety mission.



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.



Material Data Management – www.ides.com/datasheets

With our data management services, plastic suppliers and distributors can have custom search interfaces available on their website for their customers, website visitors, sales and customer service teams. These provide intuitive ways to find and view technical data sheets for their products.

"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."

– Kevin Chase, Owner & President, Chase Plastics



Advertising – www.ides.com/advertise

Reach 365,000 pre-qualified plastics professionals and generate leads with proven techniques. Electronic newsletter insertions, sponsored webinars and powerful online ads are available to make the most of your lead-generation program.

For more information, call: 800.788.4668 or 307.742.9227 ext. 220