

# EXCELLENCE+ VALUE

SABIC® FORTIFY™, POE

## SABIC VISION

To be the preferred world leader in chemicals.

## SABIC MISSION

To responsibly provide quality products and services through innovation, learning and operational excellence while sustaining maximum value for our stakeholders.

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## SABIC TODAY

SABIC, headquartered in Riyadh, Saudi Arabia, ranks among the world's top petrochemicals companies. It is a market leader in the production of polyethylene, polypropylene and other advanced thermoplastics, glycols, methanol and fertilizers. SABIC's businesses are grouped into Strategic Business Units (SBUs), known as Chemicals, Polymers, Agri-Nutrients, Metals and Innovative Plastics.

The company has significant research resources with innovation hubs in five key geographies – the USA, Western Europe, Saudi Arabia, Southeast Asia and North East Asia. It operates in more than 50 countries and manufactures around the world.



## SABIC® Octene Metallocene Polyethylenes

The new SABIC® FORTIFY™ (Polyolefin Elastomer, POE) solution is produced using Nexlene™ technology - a cutting-edge technology with a combination of solution process and proprietary metallocene catalyst.

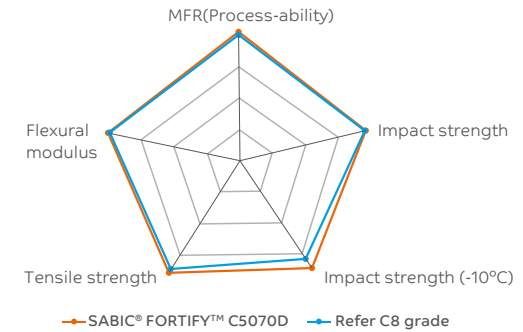
SABIC® FORTIFY™ combines the properties of thermoplastics and elastomers. SABIC® FORTIFY™ exhibits advantages of rubber such as flexibility and low compression set combined with the processing ease of thermoplastics.

Additionally, our research and development centers are open to customers to develop custom products, new grades and differentiated solutions for today and future needs.



## Key Benefits of SABIC® FORTIFY™

- Good compatibility with other polyolefin
- Low crystallinity and low Tg which provides high impact strength at low temperature
- Excellent physical properties (toughness, puncture resistance)
- Low modulus/high flexibility
  - Comparable to traditional elastomers
- High puncture, tear and weld strength for TPO sheeting



Excellent impact resistance and low temperature performance

Recipe(w.t. %): PP(65) / POE (20) / Talc (15)

**SABIC® FORTIFY™ Properties**



## SABIC® FORTIFY™ POE GRADE PORTFOLIO

PROCESS	GRADE	MI, g/10min (190°C, 2.16kg)	DENSITY (g/cm <sup>3</sup> )	TYPICAL APPLICATIONS	CHARACTERISTICS
Compounding, Extrusion, Foaming, Reactive Extrusion	C1055D	1	0.857	<ul style="list-style-type: none"> <li>• Impact modification for automotive components (Car bumpers, Auto interiors, Dashboard, Instrument panel, and Door trims)</li> <li>• Footwear</li> <li>• Wire &amp; cable</li> <li>• Grafting POE for Polyamide modification</li> </ul>	<ul style="list-style-type: none"> <li>• C8 comonomer</li> <li>• Exceptional toughness, flexibility and elasticity</li> <li>• Excellent impact strength and low temperature ductility</li> <li>• High filler loading</li> <li>• Light weight</li> <li>• Easy processing</li> </ul>
	C13060D	13	0.863		
	C0570D	0.5	0.868		
	C1070D	1	0.868		
	C5070D	5	0.868		
	C30070D	30	0.868		
	C3080	3	0.880		
	C1085	1	0.885		
				Grade name with suffix D contains anticaking agent	

Data in table are typical values and should not be construed as specification limits

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## CONTACT US

### Middle East and Africa

#### Global Headquarters

PO Box 5101  
Riyadh 11422  
Saudi Arabia  
T +966 (01) 225 8000  
F +966 (01) 225 9000  
E [info@sabic.com](mailto:info@sabic.com)

### Americas

2500 City West Boulevard  
Suite 650, Houston  
TX 77042  
USA  
T +1 713 532 4999  
F +1 713 532 4994  
E [info@americas.sabic.com](mailto:info@americas.sabic.com)

### Europe

PO Box 5151  
6130 PD Sittard  
The Netherlands  
T +31 467 222 222  
F +31 467 220 000  
E [info@sabic.com](mailto:info@sabic.com)

### Asia Pacific

One Temasek Avenue  
# 06-01 Millenia Tower  
Singapore 039192  
T +65 655 725 55  
F +65 653 181 01  
E [info@sabic.com.sg](mailto:info@sabic.com.sg)

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