

EXCELLENCE+ VALUE

SABIC® Octene Metallocene Polyethylenes

SABIC® SUPEER™, mPE

SABIC® COHERE™, POP

SABIC® FORTIFY™, POE

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 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.



SABIC® Octene Metallocene Polyethylenes

Introducing a new product range from SABIC – SABIC® SUPEER™, SABIC® COHERE™, and SABIC® FORTIFY™

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

The new SABIC® SUPEER™ and SABIC® COHERE™ product portfolio provides comprehensive 'one-stop' solutions to help our customers meet the most critical challenges across various applications in packaging, hygiene, agricultural & industrial films, building & construction and consumer products.

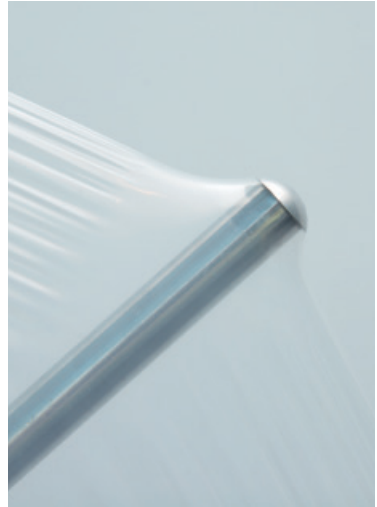
SABIC® FORTIFY™ combines the properties of thermoplastics and elastomers. SABIC® FORTIFY™ exhibits advantages of rubber such as flexibility and low compression set combined with the processing ease of thermoplastics.

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



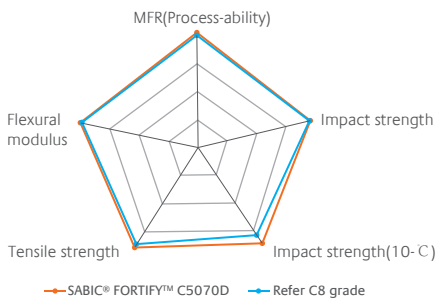
Key Benefits of SABIC® SUPEER™ and SABIC® COHERE™

- State-of-the-art molecular design: a combination of bimodal solution processes with Octene co-monomer
- Outstanding processability: enhanced bubble stability, lower motor load and extrusion pressure
- Superior mechanical performance: improved tear resistance, excellent puncture & dart impact resistance and tensile strength
- Outstanding sealing property: lower sealing initiation temperature (SIT) that enables faster packaging speed
- Excellent optics: high clarity and very low haze
- Superb hygienic properties: low extractables and outstanding organoleptics



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

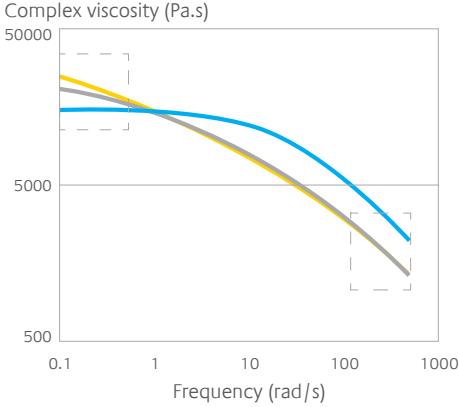


SABIC® SUPEER™ Properties

Superior Processability

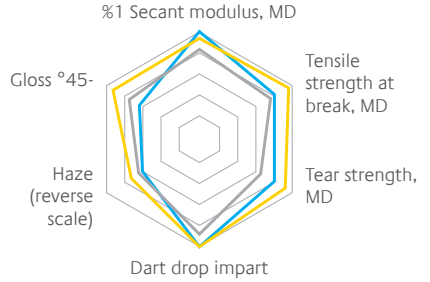
Higher bubble stability
Lower extrusion pressure

Rheology Curve @ °190C



Enhanced Film Properties

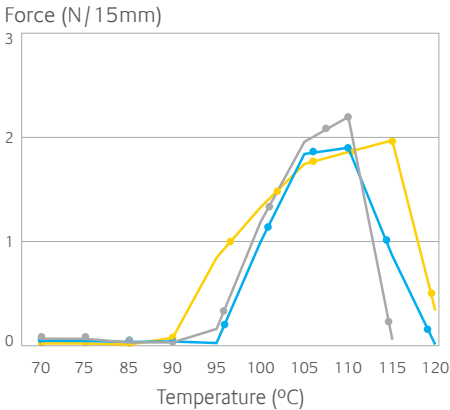
Cutting-edge mechanical strength
Higher tear resistance versus reference mPE
Excellent optical performance



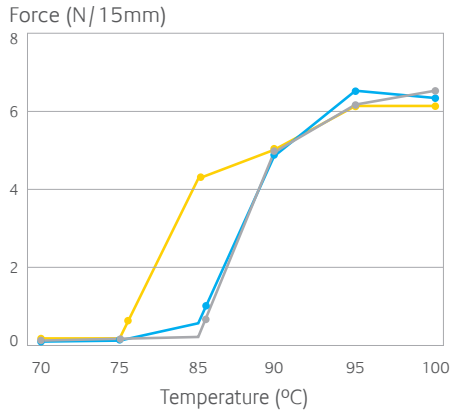
Outstanding Sealing Performance

Lower seal initiation temperature
Broader sealing window

Hot Tack Force



Seal Strength



— SABIC® SUPEER™ 8115L — Ref. A (mPE, Gas)

— Ref. B (mPE, Solution)

* SABIC lab testing data

SABIC® SUPEER™ mLLDPE Grade portfolio

PROCESS	GRADE	MI, g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	8112 (L)	1.1	0.912	Lamination film, freezer bag, liquid pouch, heavy duty bag, industrial liner, agriculture film, stretch hood, surface protective film	<ul style="list-style-type: none"> • C8 comonomer, bimodal • Excellent mechanical properties (dart impact, tear and puncture) and optical properties • Excellent sealability and processability • Superior organoleptic <p>Grade name with suffix L contains slip & antiblock agents</p>
	8115 (L)	1.1	0.915		
	8118 (L)	1.1	0.918		
Cast Film	8315	3.0	0.915	Stretch wrap film, Silage wrap film, Artificial grass	<ul style="list-style-type: none"> • C8 comonomer, bimodal • Excellent processability and organoleptic (very low odor, smell, volatiles) • Excellent mechanical and optical properties
	8318	3.0	0.918		
	8415	3.5	0.915		
Pipe	P8640	0.5	0.940	Underfloor heating pipe, hot/cold water pipe	<ul style="list-style-type: none"> • C8 comonomer, bimodal • Excellent processability and pipe appearance quality. • Very good long term hydrostatic strength and stress crack resistance

SABIC® COHERE™ POP Grade portfolio

PROCESS	GRADE	MI, g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Blown Film	8102(L)	1.0	0.902	Sealing layer of advanced flexible packaging (meat, cheese, dry foods – cookies, chips, cereal, liquid, stand-up pouch and etc.), perfect sealing solution for low sealing temperature and high speed FFS packaging line and very strict requirement for packaging reliability and integrity	<ul style="list-style-type: none"> • C8 comonomer • Exceptional heat sealing properties (lower heat seal initiation temperature, excellent hot tack and heat sealing strength) • Very good optical properties and toughness <p>Grade name with suffix L contains slip & antiblock agents</p>
	8108/ 8108L	1/0.8	0.908		
Cast Film	8402	3.5	0.902		
Extrusion Coating	81002	10	0.902	Sealing layer of monolayer or coextrusion coating for packaging	

SABIC® FORTIFY™ POE GRADE PORTFOLIO

PROCESS	GRADE	MI, g/10min (190°C, 2.16kg)	DENSITY (g/cm ³)	TYPICAL APPLICATIONS	CHARACTERISTICS
Extrusion, compounding, foaming, reactive extrusion, wire & cable coating	C0560 (D)	0,5	0.863	<ul style="list-style-type: none"> • Impact modification for automotive components (Car bumpers, Auto interiors, Dashboard, Instrument panel, and Door trims) • Footwear • Wire & cable • Grafting POE for Polyamide modification 	<ul style="list-style-type: none"> • C8 comonomer • Exceptional toughness, flexibility and elasticity • Excellent impact strength and low temperature ductility • High filler loading • Light weight • Easy processing
	C0570 (D)	0,5	0.868		
	C1055D	1	0.857		
	C1060 (D)	1	0.863		
	C1070 (D)	1	0.868		
	C1080	1	0.880		
	C1085	1	0.885		
	C3070 (D)	3	0.868		
	C3080	3	0.880		
	C5070 (D)	5	0.868		
	C13060D	13	0.863		
	C30070 (D)	30	0.868		

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

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

Europe

PO Box 5151

6130 PD Sittard

The Netherlands

T +31 467 222 222

F +31 467 220 000

E info@sabic-europe.com

Asia Pacific

One Temasek Avenue

06-01 Millenia Tower

Singapore 039192

T +65 655 725 55

F +65 653 181 01

E sappl@sabic.com

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