

SABIC FLEXIBLE PACKAGING SOLUTION : MONO PE STAND UP POUCH – DESIGN FOR RECYCLABILITY

INDUSTRY CHALLENGES

There is a growing need for sustainable packaging solutions when it comes to pouches that are made of multi-material laminate structures delivering quality and performance, since each material provides a specific functionality. Yet, when the time for recycling comes, the separation of the individual product materials in the packaging is often too expensive or technologically impractical.



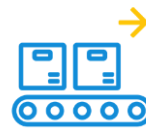
ECONOMICS & PERFORMANCE



CONSUMER CONVENIENCE



DESIGN FOR RECYCLABILITY



PROCESSING & RELIABILITY

SABIC SOLUTION

Mono-PE stand-up pouches solution from SABIC is designed for recyclability, supporting circular economy goals. The structure is based on a reversed printed MDO film and laminated against a 3-layer blown PE co-extrusion film. The solution is enabled by SABIC HDPE F04660 / F05060MD, a resin especially designed for MDO stretching, offering excellent stiffness and print-ability. Next to this the solution has comparable mechanical properties and toughness versus laminates containing PET or PA.

MDO PE FILM OFFERS :

- Stiffness
- Heat resistance
- Toughness
- Aesthetics



BLOWN PE FILM OFFERS:

- Toughness
- Sealing - Low SIT – POP 8102L



SABIC FLEXIBLE PACKAGING SOLUTION : MONO PE STAND UP POUCH – DESIGN FOR RECYCLABILITY

SABIC® PE GRADES FOR MDO FILM:

SABIC PE Grade FOR MDO	Melt Index (g/10 min)	Density (g/cm ³)	Remark
LLDPE			
6135NJ	1.0	0.935	Hexene (C6) Medium density LLDPE
mLLDPE			
7118A	1.0	0.918	Hexene (C6) mLLDPE. Without Slip & AB
HDPE			
F04660	0.7	0.961	Excellent stiffness
F05060MD	0.7	0.961	Excellent stiffness and gel control

SABIC® PE GRADES FOR BLOWN FILM:

SABIC PE Grade	Melt Index (g/10 min)	Density (g/cm ³)	Remark
LLDPE			
118WJ	1.0	0.918	Butene (C4) LLDPE. With Slip & AB
118NJ	1.0	0.918	Butene (C4) LLDPE. Without Slip & AB
6821NJ	0.8	0.921	Hexene (C6) LLDPE. Without Slip & AB
6135NJ	1.0	0.935	Hexene (C6) Medium density LLDPE
mLLDPE			
7118LA	1.0	0.918	Hexene (C6) mLLDPE. With Slip & AB
7118A	1.0	0.918	Hexene (C6) mLLDPE. Without Slip & AB
LDPE			
HP0723JN	0.75	0.923	With Slip & AB
HDPE			
F04660	0.7	0.961	Excellent stiffness
POP			
8102L	1.0	0.902	Excellent sealing property

CONTACT US

SABIC HEADQUARTERS

PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 11 225 8000
F +966 (0) 11 225 9000

EUROPE

SABIC Europe Head Office
WTC Tower Ten, 16th floor
Strawinskylaan 1475
1077 XX Amsterdam
The Netherlands

REST OF ASIA

SABIC Asia Pacific Head Office
One Temasek Avenue
#06-01 Millenia Tower
Singapore 039192
T +65 6557 2555
F +65 6531 8101

GREATER CHINA

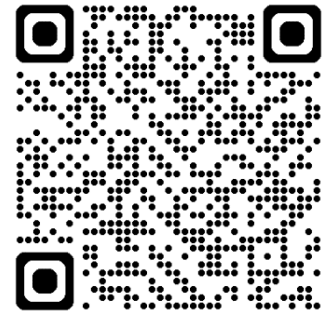
SABIC China Head Office
2550, Xiupu Road, Pudong
Shanghai, 201319
China
T +86 21 2037 8188
F +86 21 2037 8288

AMERICAS

SABIC Americas Head Office
Suite 100
2500 City West Boulevard
Houston, TX 77042
USA
T +1 713 532 4999
F +1 713 532 4994 E

FOR INQUIRIES & QUESTIONS

Please scan our QR code



DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right. SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.

© 2026 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

† Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.