

## POLYMERS

# SABIC<sup>®</sup> HDPE Blown Film F04660

## PRODUCT DESCRIPTION

F04660 is a homo-polymer film grade with excellent processability and high stiffness. It has good moisture barrier properties and can be blended with LDPE and LLDPE to improve film strength and rigidity.

## TYPICAL APPLICATIONS

F04660 is recommended for applications where high stiffness is required. It can be used in the middle layer in a coex structure or blended with LDPE and LLDPE to increase stiffness and mechanical properties. It has excellent water vapor barrier properties required for certain foods packaging.

## TYPICAL DATA

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min	0.7	ASTM D 1238
@ 190°C & 21.6 kg load		46	
Density @ 23°C	Kg/m <sup>3</sup>	961	ASTM D 1505
<b>MECHANICAL PROPERTIES<sup>(2)</sup></b>			
Tensile Strength @ break, MD, TD	MPa	67 , 37	ASTM D 882
Tensile Elongation @ break, MD, TD	%	490 , 3	ASTM D 882
1% Secant Modulus, MD, TD	MPa	1250 , 1700	ASTM D 882
Dart Impact Strength, F50	g	<20	ASTM D 1709
Elmendorf Tear Strength, MD, TD	g	10 , 800	ASTM D 1922
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point	°C	129	ASTM D 1525

(1) Typical values: not to be construed as specification limits.

(2) Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.

Processing Conditions:  
Melt Temperature: 200-235°C

## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

## STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

Saudi Basic Industries Corporation,  
P.O.Box 5101, Riyadh 11422,  
Kingdom of Saudi Arabia  
Tel: 966 11 2258000  
Fax: 966 11 2259000  
Website: [www.sabic.com](http://www.sabic.com)

Technical Marketing  
Tel: 966 11 2503093

NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any immunity against infringement.

© 2013 Copyright by SABIC. All rights reserved