

# SABIC® HDPE F04660 (Blown film)

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE F04660 is a homopolymer film grade with a broad processing window 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

SABIC® HDPE F04660 is typically used 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 good water vapor barrier properties required for certain food packaging.

Processing conditions

SABIC® HDPE F04660 can be extruded at melt temperaures between 190 and 220°C.

Film properties

Film properties have been measured on 25 µm blown film with a BUR of 4.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Features	Moisture proof
	Rigidity, high
	High density
	Homopolymer
Uses	Blown Film
	Films
	Mixing
	Food packaging
Processing Method	Blow film
	Co-extrusion molding
	Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.70	g/10 min	ASTM D1238
190°C/21.6 kg	46	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Elastic Modulus - MD (25 µm, Blown Film)	1250	MPa	ASTM D882
Elastic Modulus - TD (25 µm, Blown Film)	1700	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 25 µm, blown film	67.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	37.0	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Broken, 25 µm, blown film	490	%	ASTM D882
TD: Broken, 25 µm, blown film	3.0	%	ASTM D882
Dart Drop Impact <sup>1</sup> (25 µm, Blown Film)	< 20	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	10	g	ASTM D1922
TD: 25 µm, blown film	800	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	129	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 220	°C	
NOTE			

1. F50

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