

## POLYMERS

# SABIC<sup>®</sup> HDPE Blown Film F00952

## PRODUCT DESCRIPTION

F00952 is a high molecular weight, high density polyethylene copolymer which has a broad molecular weight distribution. The design of the product, molecular architecture and density, gives it a unique combination of easy extrusion and high melt strength with strong physical properties which makes it suitable for producing thin films with excellent strength and rigidity.

## TYPICAL APPLICATIONS

F00952 is recommended for blown film extrusion. This product is suggested for the manufacture of high strength grocery sacks, shopping bags and high quality thin films for multi-wall sack liners and replacement for thin paper products. Films produced with this product can be readily treated and printed to give high quality graphics.

## TYPICAL DATA

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min	0.05	ASTM D 1238
@ 190°C & 21.6 kg load		9	
Density @ 23°C	Kg/m <sup>3</sup>	952	ASTM D 1505
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
Tensile Strength @ break, MD, TD	MPa	60 , 56	ASTM D 882
Tensile Elongation @ break, MD, TD	%	400 , 550	ASTM D 882
Tensile Strength @ yield, MD, TD	MPa	33 , 31	ASTM D 882
1% Secant Modulus, MD, TD	MPa	1250 , 1500	ASTM D 882
Dart Impact Strength, F50	g	180	ASTM D 1709
Elmendorf Tear Strength, MD, TD	g	12 , 60	ASTM D 1922
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point	°C	125	ASTM D 1525