

## POLYMERS

# SABIC<sup>®</sup> HDPE Bimodal Blown Film F00851

### PRODUCT DESCRIPTION

F00851 is high molecular weight high density polyethylene copolymer grade specifically designed for blown film applications. 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

F00851 is recommended for blown film extrusion. It can be used for producing grocery sacks, shopping bags, refuse bags, thin film for bag on roll, wrapping film and also for replacement of 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 & 5 kg load	g/10 min	0.3	ISO 1133
@ 190°C & 21.6 kg load		9	
Density @ 23°C	Kg/m <sup>3</sup>	952	ISO 1183
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
Tensile Strength @ yield, MD, TD	MPa	50, 45	ISO 527
Tensile Elongation @ break, MD, TD	%	400, 450	ISO 527
Dart Impact Strength, F50	g	240	ASTM D 1709
Elmendorf Tear Strength, MD, TD	mN	200, 450	ISO 6383-2
Hardness (Shore D)	--	62	ISO 868
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point	°C	75	ISO 306
Brittleness Temperature	°C	<-80	ASTM D 746