

POLYMERS

SABIC[®] 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 ⁽¹⁾	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 ³	952	ASTM D 1505
MECHANICAL PROPERTIES ⁽²⁾			
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
THERMAL PROPERTIES			
Vicat Softening Point	°C	125	ASTM D 1525