

# SABIC® HDPE F00952J

## HIGH DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® HDPE F00952J resin is a high molecular weight, TNPP free high density polyethylene copolymer. The design of the product, molecular architecture and density, gives F00952J a good combination of easy extrusion and high melt strength with strong physical properties. Typical applications are thin films with excellent strength and rigidity. The material contains anti-oxidants.

SABIC® HDPE F00952J resin is typically used for blown film extrusion and production of high strength grocery sacks, shopping bags and high quality thin films for multi wall sack liners and replacement for thin paper products.

SABIC® HDPE F00952J can be extruded on conventional HMW-HDPE equipment at melt temperature settings between 200 and 220 °C.

Film properties have been measured at 15 µm blown film with a BUR = 4.

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

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190 °C and 2.16 kg	0.05	dg/min	ISO 1133
at 190 °C and 21.6 kg	9.5	dg/min	ISO 1133
<b>Density</b>	952	kg/m³	ASTM D1505
<b>FILM PROPERTIES</b>			
<b>Dart Impact F50</b>	180	g	ASTM D1709
<b>Tear strength TD Elmendorf</b>	60	g/µm	ASTM D1922
<b>Tear strength MD Elmendorf</b>	12	g/µm	ASTM D1922
<b>Tensile test film</b>			
Strain at break TD	550	%	ASTM D882
Stress at break MD	66	MPa	ASTM D882
Stress at break TD	64	MPa	ASTM D882
Yield stress MD	33	MPa	ASTM D882
Modulus of elasticity MD	1250	MPa	ASTM D882
Yield stress TD	40	MPa	ASTM D882
Modulus of elasticity TD	1500	MPa	ASTM D882
Strain at break MD	400	%	ASTM D882
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	125	°C	ASTM D1525