



## SABIC® HDPE F00952J

### High density polyethylene for Blown film

#### Description

SABIC® HDPE F00952J resin 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 F00952J an unique combination of easy extrusion and high melt strength with strong physical properties which makes it suitable for producing very thin films with excellent strength and rigidity. The material contains anti oxidant .

#### Application

SABIC® HDPE F00952J resin 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.

#### Processing conditions

SABIC® HDPE F00952J can be extruded on conventional HMW-HDPE equipment at melt temperatures between 200 and 235 °C.

#### Film properties

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

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

#### Typical data.

Revision 20101008

Properties	Units SI	Values	Test methods
<b>Polymer properties</b>			
<b>Melt flow rate (MFR)</b> at 190 °C and 2.16 kg at 190 °C and 21.6 kg	g/10 min g/10 min	<b>0.05</b> <b>9.5</b>	ISO 1133
<b>Density</b>	kg/m <sup>3</sup>	<b>952</b>	ISO 1183
<b>Formulation</b>			
<b>Anti oxidant</b>		<b>+</b>	SABIC method
<b>Film properties</b>			
<b>Dart Impact F50</b>	g	<b>180</b>	ASTM D 1709
<b>Tear strength TD Elmendorf</b>	g	<b>60</b>	ASTM D 1922
<b>Tear strength MD Elmendorf</b>	g	<b>12</b>	ASTM D 1922
<b>Tensile test film</b>			ASTM D 882
Yield stress TD	MPa	<b>40</b>	
Yield stress MD	MPa	<b>33</b>	
Stress at break TD	MPa	<b>64</b>	
Stress at break MD	MPa	<b>66</b>	
Strain at break TD	%	<b>550</b>	
Strain at break MD	%	<b>400</b>	
Modulus of elasticity TD	MPa	<b>1500</b>	
Modulus of elasticity MD	MPa	<b>1250</b>	
<b>Thermal properties</b>			
<b>Vicat softening temperature</b>	°C	<b>125</b>	ASTM D 1525



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**General information.** SABIC® HDPE copolymer film grades offer, as a result of their relative wide molecular weight distribution a well balanced combination of processing properties, draw down and film properties such as: toughness, impact resistance, stiffness and sealability.

**Health, Safety and Food Contact regulations.** Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, available on the Internet ([www.SABIC-europe.com](http://www.SABIC-europe.com)). Additional specific information can be requested via your local Sales Office.

**Quality.** SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO 9001-2000. It is SABIC Europe's policy to supply materials that meet customers specifications and needs and to keep up its reputation as a pre-eminent, reliable supplier of e.g. polyethylenes.

**Storage and handling.** Polyethylenes resins (in pelletised or powder form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in colour changes, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

**Environment and recycling.** The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC Europe considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC Europe whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

**Disclaimer.** The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC Europe as referred to herein means any legal entity belonging to the SABIC Europe group of companies.