SABIC® HDPE F00952J

High Density (HMW) Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE F00952J resin is a high molecular weight, 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.
Typical applications
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.
Processing conditions
SABIC® HDPE F00952J can be extruded on conventional HMW-HDPE equipment at melt temperaure settings between 200 and 220°C.
Film properties
Film properties have been measured at 15µm blown film with a BUR = 4.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Additive	Antioxidation
Features	Rigidity, high High molecular weight High density High strength Copolymer Antioxidation Good melt strength
Uses	Blown Film Films Lining Bags
Processing Method	Blow film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.050	g/10 min	ISO 1133
190°C/21.6 kg	9.5	g/10 min	ISO 1133

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	15	µm	
Elastic Modulus - MD (15 µm, Blown Film)	1250	MPa	ASTM D882
Elastic Modulus - TD (15 µm, Blown Film)	1500	MPa	ASTM D882

Tensile Strength			ASTM D882
MD: Yield, 15 µm, blown film	33.0	MPa	ASTM D882
TD: Yield, 15 µm, blown film	40.0	MPa	ASTM D882
MD: Broken, 15 µm, blown film	66.0	MPa	ASTM D882
TD: Broken, 15 µm, blown film	64.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 15 µm, blown film	400	%	ASTM D882
TD: Broken, 15 µm, blown film	550	%	ASTM D882
Dart Drop Impact [1] (15 µm, Blown Film)	180	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 15 µm, blown film	12	g	ASTM D1922
TD: 15 µm, blown film	60	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 220	°C	
NOTE			
1.	F50		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT