SABIC® HDPE F00950

High Density (HMW) Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE F00950 resin is a high molecular weight, high density polyethylene copolymer. The design of the product, molecular architecture and density, gives F00950 a good balance of easy extrusion and high melt strength with strong physical properties.
SABIC® HDPE F00950 is typically used for production of thin films with good strength and rigidity. The material contains anti-oxidants.
Typical applications
SABIC® HDPE F00950 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 F00950 can be extruded on conventional HMW-HDPE equipment with temperature settings between 200 and 220°C.
Film properties
Film properties have been measured at 25 µm films with a BUR = 4.
Film has been produced on Kiefel IBC film blown line at 160 kg/h with a die of 150 mm, die gap of 1.2 mm and a frostline height of 150 cm (= 10D).
This product is not intended for and must not be used in any pharmaceutical/medical applications.

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

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.070	g/10 min	ISO 1133
190°C/21.6 kg	8.5	g/10 min	ISO 1133
190°C/5.0 kg	0.30	g/10 min	ISO 1133
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
Tensile Modulus			ISO 527-3

MD: 25 µm, blown film	620	MPa	ISO 527-3
TD: 25 µm, blown film	620	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 25 µm, blown film	30.0	MPa	ISO 527-3
TD: Yield, 25 µm, blown film	30.0	MPa	ISO 527-3
MD: Broken, 25 µm, blown film	40.0	MPa	ISO 527-3
TD: Broken, 25 µm, blown film	50.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 25 µm, blown film	> 300	%	ISO 527-3
TD: Broken, 25 µm, blown film	> 400	%	ISO 527-3

Impact	Nominal Value	Unit	Test Method
Impact Strength (25.0 µm)	350	J/cm	ASTM D4272
Tear Strength			ISO 6383-2
MD : 25.0 µm	6.0	kN/m	ISO 6383-2
TD : 25.0 µm	20.0	kN/m	ISO 6383-2

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