

# SABIC® HDPE FI0750

High Density (HMW) Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE FI0750 is a high molecular high density polyethylene copolymer grade typically used for blown film applications. SABIC® HDPE FI0750 features are balance between toughness and stiffness, good impact properties with low gel level.

Typical applications

SABIC® HDPE FI0750 is typically used for blown film extrusion. Typical applications are heavy duty bags, grocery sacks, shopping bags, refuse bags, liners for multi-wall sacks and liners for frozen food meat. The grade can be blended with LLDPE and LDPE and can be used in co-extrusion process.

Processing conditions

Melt Temperature: 200-225°C

Frost Line Height: 6-8 times die cross-cut

BUR: 3-5

Film properties

Film properties have been measured at 20 µm blown film with a BUR = 4.

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

General Information			
Features	Low speed solidification crystal point		
	High molecular weight		
	High density		
	Copolymer		
	Impact resistance, good		
Uses	Blown Film		
	Lining		
	Bags		
	Mixing		
	Heavy packing bag		
Processing Method	Blow film		
	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	7.5	g/10 min	ISO 1133
190°C/5.0 kg	0.22	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ISO 868
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Tensile Stress			ISO 527-3
MD: Yield, 20 µm	50.0	MPa	ISO 527-3

TD: Yield, 20 μm	45.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 20 μm	400	%	ISO 527-3
TD: Break, 20 μm	450	%	ISO 527-3
Dart Drop Impact <sup>1</sup> (20 μm)	250	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	74.0	°C	ISO 306/B
Additional Information	Nominal Value	Unit	Test Method
Tear Strength			ISO 6383-2
MD : 20.0 μm	200.0	kN/m	ISO 6383-2
TD : 20.0 μm	425.0	kN/m	ISO 6383-2
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 225	°C	
NOTE			
1.	F50		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

