

TITANEX® HF1161

High Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

Titanex HF1161 is a pelleted high density polyethylene for blown film extrusion. HF1161 meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 3.1a & 3.2a.

Applications:

Grocery sacks, shopping bags, T-shirt bags.

Characteristics:

High extrusion rate with high film strength and rigidity, excellent draw down for high quality thin film.

General Information			
Features	Rigidity, high		
	High strength		
	Good stripping		
Uses	Bags		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Blow molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.943	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.10	g/10 min	ASTM D1238
190°C/21.6 kg	11	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
1% secant, MD	981	MPa	ASTM D882
1% secant, TD	785	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture	68.6	MPa	ASTM D882
TD: Fracture	49.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	200	%	ASTM D882
TD: Fracture	700	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD	400	J/m ²	ASTM D1922
TD	4000	J/m ²	ASTM D1922
Dart Impact - F50	7.0	hr	ASTM D1709

Extrusion	Nominal Value	Unit
Melt Temperature	180 - 240	°C
Extrusion instructions		
BUR 4:1Frost Line Height: 7 - 12 time die diameter		

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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

