

# TITANEX® HF1881

High Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

HF1881 is a pelleted medium molecular weight, high density polyethylene Hexene-1 resin for tubular film extrusion. HF1881 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, liners and thin films.

Characteristics:

Specially designed for high extrusion rate at lower temperature, good film strength and rigidity, excellent drawdown for high quality thin film, when better strength is needed, mixing with HF0961 will provide a balance between strength and extrudability.

General Information			
Features	Good Drawdown		
	Good Strength		
	Hexene Comonomer		
	High Density		
	Medium Molecular Weight		
	Medium Rigidity		
Uses	Bags		
	Film		
	Liners		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.20	g/10 min	
190°C/21.6 kg	18	g/10 min	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	17	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 17 µm, Blown Film	912	MPa	
1% Secant, TD : 17 µm, Blown Film	932	MPa	
Tensile Strength			ASTM D882
MD : Break, 17 µm,Blown Film	53.9	MPa	
TD : Break, 17 µm,Blown Film	39.2	MPa	
Tensile Elongation			ASTM D882

MD : Break, 17 µm,Blown Film	350	%	
TD : Break, 17 µm,Blown Film	500	%	
Dart Drop Impact (17 µm, Blown Film)	140	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 17 µm, Blown Film	5.1	g	
TD : 17 µm, Blown Film	68	g	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	

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#### Recommended distributors for this material

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