

TITANLENE® LDF 200GG

Low Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

LDF200GG is a low density polyethylene resin for film extrusion. LDF200GG has medium slip and anti-block additives. LDF200GG meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 2.1 & (c) 2.2.

APPLICATIONS:

Produce bags, T-shirt carrier bags, Display packaging, Light duty shrink film.

Characteristics:

Good optical and mechanical properties.

General Information			
Additive	Antiblock		
	Slip		
Features	Antiblocking		
	Low Density		
	Medium Slip		
	Opticals		
Uses	Bags		
	Film		
	Packaging		
	Shrink Wrap		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
	FDA 21 CFR 177.1520(c) 2.2		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 30 µm, Blown Film	206	MPa	
1% Secant, TD : 30 µm, Blown Film	226	MPa	ASTM D882
Tensile Strength			
MD : Break, 30 µm,Blown Film	26.5	MPa	
TD : Break, 30 µm,Blown Film	21.6	MPa	ASTM D882
Tensile Elongation			

MD : Break, 30 μm,Blown Film	310	%	
TD : Break, 30 μm,Blown Film	580	%	
Dart Drop Impact (30 μm, Blown Film)	60	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 30 μm, Blown Film	180	g	
TD : 30 μm, Blown Film	120	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Haze (30.0 μm, Blown Film)	7.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 180	°C	

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