

TITANLENE® LDF 200YZ

Low Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

LDF200YZ is a low density polyethylene resin for film extrusion. LDF200YZ has no slip and anti-block additives. LDF200YZ 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:

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

Characteristics:

Good optical and good mechanical properties.

General Information			
Features	Low Density		
	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	%	ASTM D1709
Dart Drop Impact (30 µm, Blown Film)	60	g	
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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