

TITANLENE® LDI 300YY

Low Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

LDI300YY is a low density polyethylene resin for injection molding and is a barefoot grade. LDI300YY 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:

Medium sized molding, Cosmetic containers, Bottle closures, Food containers.

Characteristics:

High stiffness, good toughness, excellent gloss.

General Information			
Features	Good Toughness		
	High Gloss		
	High Stiffness		
	Low Density		
Uses	Closures		
	Cosmetics		
	Food Containers		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
	FDA 21 CFR 177.1520(c) 2.2		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant	186	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	11.8	MPa	
Break	9.81	MPa	
Tensile Elongation (Break)	120	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-35.0	°C	ASTM D746
Vicat Softening Temperature	87.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 to 240	°C	
Mold Temperature	15.0 to 50.0	°C	

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