

# PETLIN LD N109X

Low Density Polyethylene

PETLIN (MALAYSIA) SDN BHD

## Message:

PETLIN LD N109X is a low density polyethylene resin for emdium duty film applications. It is produced by the state-of-the-art DSM Stamicarbon tubular process. It contains antioxidant (BHT free) additives. It is intended primarily for blown film process.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Food Contact Acceptable
	Low Gel
	Low Shrinkage
	Medium Clarity
Uses	Agricultural Applications
	Bags
	Film
	Foam
	Laminates
	Liners
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blown Film
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.70		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	45	µm	
Film Thickness - Recommended / Available	30 to 150 µm		
Tensile Modulus			ISO 527-3
MD : 45 µm	230	MPa	
TD : 45 µm	240	MPa	
Tensile Stress			ISO 527-3
MD : Break, 45 µm	26.0	MPa	

TD : Break, 45 µm	21.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 45 µm	240	%	
TD : Break, 45 µm	550	%	
Dart Drop Impact (45 µm)	250	g	ASTM D1709
Elmendorf Tear Strength			ISO 6383-2
MD : 45 µm	40000	N	
TD : 45 µm	30000	N	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 45.0 µm)	59		ASTM D2457
Haze (45.0 µm)	8.4	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 180	°C	

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#### Recommended distributors for this material

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