

# PETLIN LD N125Y

Low Density Polyethylene

PETLIN (MALAYSIA) SDN BHD

Message:

PETLIN LD N125Y is a low density polyethylene resin for general purpose film applications. It is produced by the state-of-the-art DSM Stamicarbon tubular process. It contains antioxidant (BHT free), slip and antiblock additives. It is intended primarily for blown film process.

General Information	
Additive	Antioxidant High Antiblock Medium Slip
Features	Antioxidant Food Contact Acceptable Heat Sealable High Antiblocking High Slip Low Gel
Uses	Agricultural Applications Bags Film Foam Industrial Applications Liners Textile Applications
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)	2.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.10		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Thickness - Recommended / Available	20 to 100 µm		

Tensile Modulus			ISO 527-3
MD : 25 $\mu$ m	194	MPa	
TD : 25 $\mu$ m	216	MPa	
Tensile Stress			ISO 527-3
MD : Break, 25 $\mu$ m	70.0	MPa	
TD : Break, 25 $\mu$ m	25.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 $\mu$ m	130	%	
TD : Break, 25 $\mu$ m	580	%	
Dart Drop Impact (25 $\mu$ m)	77	g	ASTM D1709
Elmendorf Tear Strength			ISO 6383-2
MD : 25 $\mu$ m	70000	N	
TD : 25 $\mu$ m	25000	N	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 $\mu$ m)	61		ASTM D2457
Haze (25.0 $\mu$ m)	8.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 170	°C	

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#### Recommended distributors for this material

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