PRODUCT DATA SHEET

PETRONAS

MFR 2.5
Density 921

PETLIN LD N125Y

Low Density Polyethylene

DESCRIPTION

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. This product meets the United State Food and Drug Administration (US FDA) criteria fo food contact use as specified in CFR 177.1520 (c) 3.1a & 3.2a and Commission Regulation (EU) No. 10/2011.

CHARACTERISTICS include:

- Low gels
- High sealability
- High slip
- High antiblocking

APPLICATIONS include:

Films for textile, carrier bags, agriculture films, industrial liners, bubble films, zip bags, foam sheets, crosslinked foams.

RECOMMENDED GAUGES:

20 - 100 microns

TYPICAL DATA:

25 microns film

Product Properties*	Test Method	Units	Value
General Properties			
Melt Flow Rate, I_2	ASTM D 1238;B @ 190°C, 2.16kg	g/10min	2.5
Nominal Density	ASTM D 792	kg/m^3	921
Melting Temperature	ASTM D 3417	°C	111
Vicat Softening Temperature	ASTM D 1525 (Load: 1 kg; Heating rate: 50°C/hr)	°C	94
Mechanical Properties			
Tensile Strength at Yield, (MD/TD)	ASTM D 882	MPa	25/70
Tensile Strength at Break, (MD/TD)	ASTM D 882	MPa	15/29
Elongation at Break, (MD/TD)	ASTM D 882	%	580/130
Elmendorf Tear Strength, (MD/TD)	ASTM D 1922	g/25µm	216/194
Dart Impact Strength	ASTM D 1709-15a	g	76.8
Other Properties			
Clarity	ASTM D 1746	%	90
Gloss (45°)	ASTM D 2457	GU	61
Haze	ASTM D 1003	%	8
Coefficient of Friction (COF)	ASTM D 1894	-	0.1

*The physical properties shown are typical values obtained by averaging a number of test results and small divergence from quoted figures may occur.

Typical Processing Conditions

Extrusion melt temperature of PETLIN LD N125Y in the range of from 150°C~170°C depending on the type of machine. For blown film, recommended blow-up ratio of 2 to 3:1.

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REGULATORY
PETLIN LD N125Y complies with the following specification when processed using good extrusion practice:-
- FDA Regulation 21 CFR 177.1520 and CFR 178.2010.
- Commission Regulation (EU) No. 10/2011.
- HALAL certified.
- REACH, RoSH and SVAC.

AVAILABILITY
PETLIN LD N125Y are available 25kg bags. The product type and batch number are clearly marked on each bag.

STORAGE/HANDLING
PETLIN LD N125Y should be properly stored in well ventilated environment at a temperature of below 50°C. Prolonged or improper storage can result in deterioration of product properties. The PETRONAS Chemicals Safety Data Sheet (SDS) contains important safety information and should be viewed before using the product.

HEALTH & SAFETY
PETLIN LD N125Y is not classified as a dangerous preparation. Please refer to our Safety Data Sheet (SDS) for details on various aspects of safety, recovery and disposal of the product.

PRODUCT STEWARDSHIP
PCGB has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. Our Product Stewardship program rests with each and every individual involved with PCGB's products– from the initial concept and research, to manufacture, use, sale and disposal of each product.

RELATED DOCUMENTS
The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

Safety Data Sheet (SDS)
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations

FOR MORE INFORMATION
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