

PRODUCT DATA SHEET



MFR 3.5
Density 921 **ETILINAS PETLIN LDPE LD**

Low Density Polyethylene for Extrusion Coating

DESCRIPTION

ETILINAS PETLIN LDPE C170X is a low density polyethylene resin developed for the extrusion coating and lamination at high speed. It is free from additive. **ETILINAS PETLIN LDPE C170X** is produced on a state-of-the-art Clean Tubular Reactor production technology.

CHARACTERISTICS include:

ETILINAS PETLIN LDPE C170X is designed to be used in combination with other substrates to produce its intended product application. **ETILINAS PETLIN LDPE C170X** is produced under high purity process to ensure production of clean resin as required to meet the demand of high cleanliness of the application.

The unique molecular characteristic of **ETILINAS PETLIN LDPE C170X** allows good processing features including smooth surface finish, excellent optical with good mechanical properties, low neck-in and excellent heat seal-ability.

APPLICATIONS include:

ETILINAS PETLIN LDPE C170X is intended for the extrusion coating and lamination at high speed. Suitable substrate for paper, aluminium foil, cellophane film, polymer film, photographic paper, tarpaulin and woven bags.

Physical Property*	Test Method	Units	Typical Value
General Properties			
Melt Flow Rate, I ₂	ASTM D 1238;B @ 190°C, 2.16kg	g/10min	3.5
Nominal Density	ASTM D 792	kg/m ³	921
Melting Temperature	ASTM D 3417	°C	109
Crystallization Temperature	ASTM D 3417	°C	100
Vicat Softening Temperature	ASTM D 1525 (Load: 1 kg; Heating rate: 50°C/hr)	°C	86
Coating Properties			
Minimal coating weight	PETLIN Method	g/m ²	10
Neck-In	PETLIN Method	mm	7-12*
Water vapor permeability	PETLIN Method	g/m ³ .24h	20
Coefficient of Friction	ASTM D 1894	-	0.6
Optical Properties			
Clarity	ASTM D 1746	%	95
Gloss (45°)	ASTM D 2457	GU	66
Haze	ASTM D 1003	%	5.8
Coefficient of Friction (COF)	ASTM D 1894	-	-

*Measured one side with coating weight 10g/m², line speed 100m/min and melt temperature 320°C

Typical Processing Data

The adoption of correct extrusion conditions and practice are paramount importance for **ETILINAS PETLIN LDPE C170X** to ensure long term performance. Modifying some extrusion parameters may be necessary to achieve optimum throughput rates. Correctly extruded insulations have smooth surface.

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REGULATORY

ETILINAS PETLIN LDPE C170X 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

ETILINAS PETLIN LDPE C170X are available in 25kg bags. The product type and batch number are clearly marked on each bag.

STORAGE

ETILINAS PETLIN LDPE C170X 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 AND SAFETY

ETILINAS PETLIN LDPE C170X 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

PETRONAS Chemical Group Berhad (PCG) 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 PCG'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

Please contact **PETRONAS Chemicals Group Berhad (PCG)**, Tower 1, PETRONAS Twin Towers, Kuala Lumpur City Centre, 50088 Kuala Lumpur, Malaysia.

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MS ISO 9001:2008 REG NO: AR3349

MS ISO 14001:2004 REG NO. ER0458

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