## MFR 5 <br> Density 921 ETILINAS PETLIN LDPE C150Y

## Low Density Polyethylene

## DESCRIPTION

ETILINAS PETLIN LDPE C150Y is a low density polyethylene resin for general purpose and thin 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 for 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 clarity and gloss
- High drawdown • Good sealability, high slip and high antiblocking


## APPLICATIONS include:

Thin gauge film for: textile, laundry, dry cleaning, garment; crosslinked foams; zip bags.

## RECOMMENDED GAUGES:

15-60 microns
TYPICAL DATA:
25 microns film

| Product Properties* | Test Method | Units | Value |
| :---: | :---: | :---: | :---: |
| General Properties Melt Flow Rate, $I_{2}$ | ASTM D 1238;B @ $190^{\circ} \mathrm{C}, 2.16 \mathrm{~kg}$ | g/10min | 5 |
| Nominal Density | ASTM D 792 | $\mathrm{kg} / \mathrm{m}^{3}$ | 921 |
| Melting Temperature | ASTM D 3417 | ${ }^{\circ} \mathrm{C}$ | 111 |
| Vicat Softening Temperature | ASTM D 1525 (Load: 1 kg ; Heating rate: $50^{\circ} \mathrm{C} / \mathrm{hr}$ ) | ${ }^{\circ} \mathrm{C}$ | 94 |
| Mechanical Properties |  |  |  |
| Tensile Strength at Break, (MD/TD) | ASTM D 882 | MPa | 15/26 |
| Elongation at Break, (MD/TD) | ASTM D 882 | \% | 610/149 |
| Elmendorf Tear Strength, (MD/TD) | ASTM D 1922 | $\mathrm{g} / 25 \mu \mathrm{~m}$ | 30/80 |
| Dart Impact Strength | ASTM D 1709-15a | g | 86 |
| Other Properties |  |  |  |
| Clarity | ASTM D 1746 | \% | 85 |
| Gloss (45 ) | ASTM D 2457 | GU | 66 |
| Haze | ASTM D 1003 | \% | 6.5 |
| 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 ETILINAS PETLIN LDPE C150Y in the range of from $140^{\circ} \mathrm{C} \sim 170^{\circ} \mathrm{C}$ depending on the type of machine. For blown film, recommended blow-up ratio of 2 to 3:1.

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## REGULATORY

ETILINAS PETLIN LDPE C150Y 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 C150Y are available 25 kg bags. The product type and batch number are clearly marked on each bag.

## STORAGE/HANDLING

ETILINAS PETLIN LDPE C150Y should be properly stored in well ventilated environment at a temperature of below $50^{\circ} \mathrm{C}$. 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

ETILINAS PETLIN LDPE C150Y 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

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