

PRODUCT DATA SHEET



ETILINAS PE3838MA

Polyethylene for Bubble Wrap Application

DESCRIPTION

ETILINAS PE3838MA is a linear low density polyethylene resin which specially designed for high modulus, flexible, lightweight cushioning products to meet protective packaging requirement. Associated with excellent neck in and good draw ability performance, which contains anti-oxidant, slip and antiblock additives. It gives final article of medium slip, which is easily separable.

CHARACTERISTICS include:

- Excellent stiffness
- Excellent cell stability for firm bubble
- Good shock absorption
- Higher tensile strength
- Good chemical resistant

APPLICATIONS :

ETILINAS PE3838MA is formulated for a stiffer and durable bubble wrap for the protective and void fill in the e-commerce packaging applications. Ranges of applications cover from cushioning, wrapping, surfaces protection, interleaving and void fill.

Key Properties	Test Method	Units	Value
Melt Flow Rate (190°C/2.16kg)	ASTM D1238	g/10min	4.0
Density	ASTM D1505	kg/m ³	938
Flexural Modulus	ISO 527	MPa	450

Bubble Wrap Properties	Test Method	Units	Value
Tensile Strength @ Break (MD/TD)	ISO 1183	MPa	35/20
Elongation @ Break (MD/TD)	ISO 527	MPa	200/870
1% Secant Modulus	ISO 1183	MPa	340
Coefficient of friction	ISO 8295		0.15
Blocking Force	ASTM 3354	gm	95

*The physical properties shown above are typical values obtained by averaging a number of test results and small divergence from quoted figures may occur. The bubble wrap are blended of PE3838MA:PETLIN LDPE at ratio 1:1. Thicknesses of the combined both layers of bubble is 35µm. Bubble specification: 10mm bubble base diameter with 4.2 mm bubble height.

PRODUCT DATA SHEET



ETILINAS PE3838MA

Polyethylene for Bubble Wrap Application

REGULATORY

ETILINAS PE3838MA complies with the following specification when processed using good extrusion practice:

- US FDA Regulation 21 CFR 177.1520 and CFR 178.2010.
- Commission Regulation (EU) No. 10/2011.
- HALAL certified.
- REACH, RoHS and SVHC.

AVAILABILITY

ETILINAS PE3838MA is available in 25kg bag and bulk bag. The product grade and batch number are clearly marked on each bag.

STORAGE/HANDLING

ETILINAS PE3838MA 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

ETILINAS PE3838MA 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 aims to increase awareness of all the hazards associated with the storage, handling and use of its products. Thoroughly reviewing the accompanying Safety Data Sheets and disseminating the information to all dependent and interested parties is an essential part of any 'Responsible Care' programme.

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 (PCGB)**, Tower 1, PETRONAS TWIN TOWER, Kuala Lumpur City Centre, 50088 KUALA LUMPUR, MALAYSIA.

Tel: +(603) 2051 5000 Fax: +(603) 2051 3888 or visit our site www.petronaschemicals.com

For product queries, kindly email to polymer.pcg@petronas.com

IMPORTANT NOTICE

Information contained in this document is accurate and reliable to the best of the knowledge and belief of PETRONAS Chemicals Group Berhad (PCGB). The suggestions and recommendations offered herein serve as a guide in the use of these materials, and cannot be guaranteed because the conditions of use are beyond PCGB's control. PCGB assumes no responsibility for the use of information supplied, the application, adaptation or processing of the products described herein and here by disclaims all liability (except as otherwise provided by the law) in regard to such use.