

ADVANCED PRODUCT DATA SHEET



PETRONAS

MFR 1.2

Density 958 **ETILINAS TRIMOD AMT5831B**

High Density Polyethylene for Blow Moulding

DESCRIPTION

ETILINAS TRIMOD AMT5831B is a high density polyethylene resin used in small blow moulding applications such as thin-wall packaging, consumer goods and toys. It exhibits a very good combination of high stiffness and high stress cracking resistance. It is delivered in pellet form, demonstrates good organoleptic properties, contains antioxidants and has a broad molecular weight distribution.

CHARACTERISTICS include:

- High stiffness
- Excellent balance stiffness to ESCR
- Good flow ability

APPLICATIONS include:

- Bottle from a few ml to 10 liters
- Leisure, Toys
- Consumer packaging

Product Properties	Test Method	Units	Value
Density (23°C, base resin)	ISO 1183-1/A	g/cm ³	0.958
Melt Flow Rate 190/2.16	ISO 1133	g/10 min	0.35
Melt Flow Rate 190/5	ISO 1133	g/10 min	1.2
Melt Flow Rate 190/21.6	ISO 1133	g/10 min	22
FFR (MFR 21.6kg/MFR 5kg)	ISO 1133	-	18
Tens. Mod. (23°C, v = 1mm/min, Sec.)	ISO 527-2	MPa	1320
Tensile Impact Strength (-30°C, notched)	ISO 8256-1A	kJ/m ²	≥ 50
Charpy Impact Strength (-30°C, notched)	ISO 179-1/1eA	kJ/m ²	> 4
ESCR (FNCT, 4 MPa, 80°C, 2% NP9*)	ISO 16770	h	> 3.6

Typical Processing Conditions

Recommended melt temperature on processing: 180-220°C

Notes:

*NP9: Arkopal N100, Igepal BC9

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AVAILABILITY

ETILINAS TRIMOD AMT5831B is available in 25kg bag and bulk bag. The product type and batch number are clearly marked on each bag.

STORAGE/HANDLING

ETILINAS TRIMOD AMT5831B 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 TRIMOD AMT5831B 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

FOR MORE INFORMATION

Please contact **PETRONAS Chemicals Group Berhad (PCGB)**, Level 34, Tower 1, PETRONAS TWIN TOWER, KLCC, 50088 KUALA LUMPUR, MALAYSIA.

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