

PETLIN (MALAYSIA) SDN BHD (4785353:16:33 PM-T)

PRODUCT DATA SHEET (Advance Information Sheet)



PETLIN LD™ M022X Low Density Polyethylene (LDPE)

PETLIN LD M022X is a low density polyethylene resin designed primarily for injection moulding and masterbatch applications. It is produced by the state-of-the-art Clean Tubular Reactor production technology.

Characteristics : Low gels, high gloss, good mechanical properties

Applications : Lids, housewares, masterbatches

Extrusion conditions : For injection moulding, recommended melt temperature 180°C – 210 °C

Properties	Units	Typical values	Test methods
<u>Polymer Properties :</u>			
Melt Flow Rate:	dg/min	22	ISO 1133
Density	kg/m ³	920	ISO 1183 (A)
<u>Mechanical Properties :</u>			
Tensile Strength at Yield	N/mm ²	8	ISO 527-2
Tensile Strength at Break	N/mm ²	7	ISO 527-2
Strain at Break	%	400	ISO 527-2
Tensile Modulus	N/mm ²	175	ISO 527-2
Hardness	Shore D	45	ISO 868
<u>Thermal Properties :</u>			
Melting Temperature	°C	105	DIN 53765
Crystallization Temperature	°C	100	DIN 53765
Average heat of fusion	J/g	122	DIN 53765
Vicat Softening Temperature	°C	82	ISO 306

The properties shown above are typical values and are not to be taken as specifications.

Test on mechanical property was performed on compression moulded specimen. Testing speed was 50 mm/min.

Food contact approval status :

This material complies with FDA 21 CFR 177.1520 when used unmodified and according to good manufacturing practices for food contact applications. Accordingly, this material may be used in all food contact applications.

IMPORTANT NOTICE :

Information contained in this document is accurate and reliable to the knowledge and belief of Petlin (Malaysia) Sdn Bhd. The suggestions and recommendations are offered herein as a guide in the use of Petlin products, and cannot be guaranteed because the conditions of use are beyond Petlin's control. Petlin assumes no responsibility for the use of information supplied, the application, adaptation or processing of its products described herein and hereby disclaims all liability in regard to such use.

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ENVIRONMENT

The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs etc. Petlin considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials.

Petlin LD low density polyethylene, as supplied, can be recycled, incinerated or disposed of in landfill without detriment to the environment.

The recycling of packaging materials is supported by Petlin whenever ecological and social benefits are achieved. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene - with its fairly simple molecular structure and low amount of additives - is considered to be a trouble-free fuel.

SAFETY

Under normal conditions polyethylenes do not present a toxic hazard through skin contact or inhalation. During processing, contact with molten polymer and inhalation of volatile fumes should be avoided. It is recommended to install exhaust hoods over processing machines and to keep working area well ventilated. More specific information on the safety aspects of the Petlin LD low density polyethylene is provided in the relevant Material Safety Data Sheets, available from Petlin's sales agents.

STORAGE

As polyethylenes, like most polymers, are combustible, the usual precautions concerning ignition sources should be taken in warehouses and storage rooms. It is necessary to observe the normal rules for orderly and safe handling and to keep out dust, direct sunlight and moisture.

Further information is available from :
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