

# PRODUCT DATA SHEET



PETRONAS

MFR 22  
Density 920 **PETLIN LD M022X**

## Low Density Polyethylene

### DESCRIPTION

**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 DSM Stamicarbon tubular process. It contains antioxidant (BHT free).

### CHARACTERISTICS include:

- Low gels
- High flow and high gloss
- High filler acceptance

### APPLICATIONS include:

Lids, housewares, masterbatches, powder coating.

Physical Property*	Test Method	Units	Typical Value
<b>General Properties</b>			
Melt Flow Rate, I <sub>2</sub>	ASTM D 1238;B @ 190°C, 2.16kg	g/10min	22
Nominal Density	ASTM D 792	kg/m <sup>3</sup>	920
Melting Temperature	ASTM D 3417	°C	105
Crystallization Temperature	ASTM D 3417	°C	100
Vicat Softening Temperature	ASTM D 1525 (Load: 1 kg; Heating rate: 50°C/hr)	°C	82
<b>Mechanical Properties</b>			
Tensile Strength at Yield	ASTM D 638, 50mm/min type 4	MPa	8
Tensile Strength at Break	ASTM D 638, 50mm/min type 4	MPa	7
Strain at Break	ASTM D 638, 50mm/min type 4	%	400
Tensile Modulus	ASTM D 638, 50mm/min type 4	MPa	175
Hardness	ASTM D 2240	Shore D	45
<b>Other Properties</b>			
Average of fusion	DIN 53765	J/g	122

\*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

For injection moulding of PETLIN LD M022X in the range of from 180°C~210°C depending on the type of machine. Testing speed was 50mm/min.

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#### REGULATORY

PETLIN LD M022X 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

PETLIN LD M022X are available 25kg bags. The product type and batch number are clearly marked on each bag.

#### STORAGE/HANDLING

PETLIN LD M022X 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

PETLIN LD M022X 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.

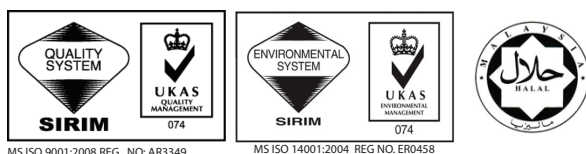
Safety Data Sheet (SDS)  
Statement on chemicals, regulations and standards  
Statement on compliance to food contact regulations

#### FOR MORE INFORMATION

Please contact **PETRONAS Chemicals Group Berhad (PCGB)**, Level 15, Tower 1, PETRONAS TWIN TOWERS, KLCC, 50088 KUALA LUMPUR, MALAYSIA.

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