



# M500026

Linear Low Density Polyethylene for Injection molding

## Product Description

M500026 is Linear Low Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give excellent flow properties with better low temperature toughness, stress crack resistance and gloss.

## Typical Applications

M500026 is recommended for lids for closures and containers and deep draw houseware products, automotive parts etc.

## Typical data

Properties	Unit	Value <sup>(1)</sup>	ASTM Method
<b>Resin Properties</b>			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	50	D 1238
Density @ 23°C	kg/m <sup>3</sup>	926	D 1505
<b>Mechanical Properties<sup>(2)</sup></b>			
1% Secant Modulus	MPa	240	D 638
Tensile Strength @ Yield	MPa	10	D 638
Tensile Strength @ Break	MPa	8	D 638
Tensile Elongation @ Break	%	>350	D638
Flexural Strength	MPa	8	D 790
Flexural Modulus	MPa	200	D 790
Izod Impact	J/m	500	D 256
Hardness (Shore D)	-	50	D 2240
ESCR (100% Igepal), F <sub>50</sub> <sup>*</sup>	Hrs	6	D 1693B
ESCR (10% Igepal), F <sub>50</sub> <sup>*</sup>	Hrs	3	
<b>Thermal Properties</b>			
Vicat Softening Point	°C	88	D 1525
Brittleness Temperature	°C	< -75	D 746

(1) Typical values; not to be construed as specification limits.

(2) Based on Injection molded specimens

\* Based on Compression molded sheet

## Processing Conditions

Typical processing conditions for M500026 are:

Barrel temperature: 180 - 230°C (354 - 444°F)

Mold temperature: 15 - 60°C (60 -140°F)

Injection pressure: 600 - 1000 Bar (8700 - 14500 psi)

### **Food Regulation**

M500026 is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

### **Storage and Handling**

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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Saudi Basic Industries Corporation, P.O.Box 5101, Riyadh 11422, Kingdom of Saudi Arabia  
Tel: 966 1 2258000  
Fax: 966 1 2259000

Technical Marketing  
Tel: 966 1 2659166  
Fax: 966 1 2653544  
Toll-free 800 1245577

PE Sales:  
Fax: 966 1 2258760  
Website: [www.sabic.com](http://www.sabic.com)

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