

# SABIC® LLDPE MG500026

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® LLDPE MG500026 is a high flow linear density copolymer grade with a narrow molecular weight distribution. SABIC® LLDPE MG500026 resin is in powder form.

### Application

SABIC® LLDPE MG500026 typically used for injection moulding masterbatches where a high filler acceptance is required, combined with a good flow.

Since the resin is supplied in free flowing powder form it can be used for masterbatch production where PE powders are used.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Copolymer High Flow Low Density Narrow Molecular Weight Distribution		
Uses	Compounding Masterbatch		
Forms	Powder		
Processing Method	Compounding Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (Compression Molded)	2.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Compression Molded)	354	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Compression Molded	13.0	MPa	
Break, Compression Molded	12.4	MPa	
Tensile Elongation (Break, Compression Molded)	120	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	450	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	88.0	°C	ASTM D1525 <sup>1</sup>
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 230	°C	

**NOTE**

1. Loading 1 (10 N)

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**Recommended distributors for this material**

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