

SABIC® LLDPE M500026

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE M500026 is a high flow, linear low density polyethylene copolymer injection moulding grade with a narrow molecular weight distribution. It has been typically designed to have good low temperature toughness, stress crack resistance (ESCR), mouldability and gloss.

Typical applications.

Injection Molding: SABIC® LLDPE M500026 is typically used for injection moulding of containers, reclosure lids and fast cycle, deep draw injection moulding applications, which takes advantage of its high flow properties. Also, the higher melting point of the material allows for high end-use temperature when compared with conventional polyethylenes of equal density.

Masterbatch Compounding: SABIC® LLDPE M500026 resin is typically used for injection moulding masterbatch where a high filler acceptance is required combined with a good flow.

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

General Information			
Features	Copolymer		
	Fast Molding Cycle		
	Good Moldability		
	High ESCR (Stress Crack Resist.)		
	High Flow		
	High Gloss		
	Low Density		
	Low Temperature Toughness		
	Narrow Molecular Weight Distribution		
Uses	Compounding		
	Containers		
	Lids		
	Masterbatch		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal CO-630, Compression Molded, F50)	2.00	hr	ASTM D1693A
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 ¹
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 230	°C	
Mold Temperature	5.00 to 30.0	°C	
NOTE			

1. Loading 1 (10 N)

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Recommended distributors for this material

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