

SABIC® LLDPE M500026

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

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.

General Information			
Features	Low Temperature Flexibility		
	High ESCR (Stress Cracking Resistance)		
	Highlight		
	Narrow molecular weight distribution		
Uses	Cover		
	Household goods		
	Application in Automobile Field		
	Container		
Processing Method	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			ASTM D1693B
10% Igepal, injection molding, F50	3.00	hr	ASTM D1693B
100% Igepal, injection molding, F50	6.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Injection Molded)	240	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, injection molding	10.0	MPa	ASTM D638
Fracture, injection molding	8.00	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	> 350	%	ASTM D638
Flexural Modulus (Injection Molded)	200	MPa	ASTM D790
Flexural Strength (Injection Molded)	8.00	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (Injection Molded)	500	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	
Rear Temperature	180 - 230	°C	
Middle Temperature	180 - 230	°C	
Front Temperature	180 - 230	°C	
Mold Temperature	15.0 - 60.0	°C	
Injection Pressure	60.0 - 100	MPa	
NOTE			

1. 压力1 (10N)

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