

SABIC® LLDPE M200024

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE M200024 is a 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) and gloss.

Typical applications.

Injection Molding: SABIC® LLDPE M200024 is typically used for injection moulding of large items where high flow and fast cycles are required such as for example housewares, trash cans, automotive parts, lids and large industrial containers.

Masterbatch Compounding: SABIC® LLDPE M200024 is typically used for masterbatch applications like blow moulding, injection moulding and film extrusion. It can be used for masterbatches with very high carbon black, titanium dioxide or pigment content.

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

General Information			
Features	Copolymer		
	Fast Molding Cycle		
	High ESCR (Stress Crack Resist.)		
	High Flow		
	High Gloss		
	Low Density		
	Low Temperature Toughness		
	Narrow Molecular Weight Distribution		
Uses	Automotive Applications		
	Compounding		
	Household Goods		
	Industrial Containers		
	Lids		
	Masterbatch		
	Waste Containers		
Processing Method	Blow Molding		
	Compounding		
	Film Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal CO-630, Compression Molded, F50)	24.0	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)	315	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Compression Molded	12.0	MPa	
Break, Compression Molded	8.50	MPa	
Tensile Elongation (Break, Compression Molded)	450	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	540	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	94.0	°C	ASTM D1525 ¹
Injection	Nominal Value	Unit	
Processing (Melt) Temp	193 to 232	°C	
Mold Temperature	5.00 to 30.0	°C	
NOTE			
1.	Loading 1 (10 N)		

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