

# SABIC<sup>®</sup> LLDPE M200024

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

SABIC<sup>®</sup> 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

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

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

## TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 190 °C and 2.16 kg	20	dg/min	ASTM D1238
<b>Density</b>	924	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield	12	MPa	ASTM D638
secant modulus at 1% elongation	315	MPa	ASTM D638
strain at break	450	%	ASTM D638
stress at break	8.5	MPa	ASTM D638
<b>Izod impact notched at 23 °C</b>	540	J/m	ASTM D256A
<b>Hardness Shore D</b>	55	-	ISO 868
<b>ESCR</b>	24	h	ASTM D1693
<b>ESCR (100% Igepal CO-630), F50</b>	24	h	ASTM D1693B
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	94	°C	ASTM D1525
<b>Brittleness Temperature</b>	<-75	°C	ASTM D746

## PROCESSING CONDITIONS

Typical moulding conditions for SABIC<sup>®</sup> LLDPE M200024 are:

Material temperature: 193 - 232 °C (380 - 450 °F)

Mould temperature: 5 - 30 °C (40 - 85 °F)

## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, available on the Internet ([www.SABIC.com](http://www.SABIC.com)). Additional specific information can be requested via your local Sales Office."



## 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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