

SABIC® LLDPE M200024

LINEAR LOW DENSITY POLYETHYLENE
REGION ASIA

DESCRIPTION

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

SABIC® 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 20210719

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	20	g/10 min	ASTM D1238
Density ⁽¹⁾	924	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Flexural properties			
flexural strength	9	MPa	ASTM D790
flexural modulus	200	MPa	ASTM D790
Izod Impact Strength	500	J/m	ASTM D256
Hardness (Shore D)	50	-	ASTM D2240
ESCR ⁽²⁾			
100% Igepal, F50	6	Hrs	ASTM D1693B
10% Igepal, F50	3	Hrs	ASTM D1693B
FILM PROPERTIES			
Tensile Properties ⁽³⁾			
1% secant modulus	230	MPa	ASTM D638
stress at yield	10	MPa	ASTM D638
stress at break	12	MPa	ASTM D638
strain at break	>500	%	ASTM D638
THERMAL PROPERTIES			
Vicat Softening Point	92	°C	ASTM D1525
Brittleness Temperature	<-75	°C	ASTM D746

(1) Test specimens are prepared from compression moulded sheet made according to ASTM D 1928 Procedure C.

(2) Based on compression molded sheet.

(3) Based on injection molded specimens.

PROCESSING CONDITIONS

Typical moulding conditions for SABIC® LLDPE M200024 are:

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

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

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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