

SABIC® LLDPE M200024

LINEAR LOW DENSITY POLYETHYLENE

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 20170531

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 190 °C and 2.16 kg	20	dg/min	ASTM D1238
Density ^{(1) (2)}	924	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES ^{(1) (2)}			
Tensile test			
strain at break	450	%	ASTM D638
Tensile test			
secant modulus at 1% elongation	315	MPa	ASTM D638
stress at yield	12	MPa	ASTM D638
stress at break	8.5	MPa	ASTM D638
Izod impact notched at 23 °C	540	J/m	ASTM D256
Hardness Shore D	55	-	ASTM D2240
ESCR	24	h	ASTM D1693
ESCR (100% Igepal CO-630), F50	24	h	ASTM D1693A
THERMAL PROPERTIES ^{(1) (2)}			
Vicat softening temperature			
at 10 N (VST/A)	94	°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) Test specimens are prepared from compression moulded sheet made according to ASTM D 1928 Procedure C.



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)

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, 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.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.