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 20261013

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	20	dg/min	ASTM D1238
Density	924	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
Flexural Strength	9	MPa	ASTM D790
Flexural Modulus	200	MPa	ASTM D790
Tensile test			
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
Izod impact notched at 23 °C	540	J/m	ASTM D256A
Hardness Shore D	55	-	ISO 868
ESCR (100% Igepal CO-630), F50	24	h	ASTM D1693B
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	94	°C	ASTM D1525
Brittleness Temperature	<-75	°C	ASTM D746

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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