

SABIC® LLDPE M300024

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE M300024 is a linear low density polyethylene copolymer injection moulding and master-batch 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 M300024 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	30	dg/min	ASTM D1238
Density	924	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test			
stress at break	8.5	MPa	ASTM D638
stress at yield	12.2	MPa	ASTM D638
strain at break	350	%	ASTM D638
secant modulus at 1% elongation	360	MPa	ASTM D638
Izod impact notched at 23 °C	530	J/m	ASTM D256A
Hardness Shore D	55	-	ISO 868
ESCR (100% Igepal CO-630), F50	15	h	ASTM D1693B
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	92	°C	ASTM D1525
Brittleness Temperature	<-75	°C	ASTM D746

PROCESSING CONDITIONS

Typical moulding conditions for SABIC® LLDPE M300024 are:

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

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