

SABIC® LLDPE M50022T

LINEAR LOW DENSITY POLYETHYLENE
REGION ASIA

DESCRIPTION

SABIC® M50022T is a Linear Low Density Polyethylene grade for injection molding applications. It has been designed to give good flow properties with low temperature toughness, stress crack resistance and high gloss.

TYPICAL APPLICATIONS

Housewares, trash cans, lids for large industrial containers, automotive parts, masterbatch/compounding.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	5	g/10 min	ASTM D1238
Density at 23°C	922	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Izod Impact unnotched at 23 °C ⁽¹⁾	500	J/m	ASTM D256
FILM PROPERTIES			
Tensile Properties			
stress at yield	8	MPa	ASTM D638
stress at break	13	MPa	ASTM D638
elongation at break	>600	%	ASTM D638
THERMAL PROPERTIES			
Vicat Softening Temperature			
Rate B/50 ⁽¹⁾	91	°C	ASTM D1525

(1) Based on injection molded specimens.

PROCESSING CONDITIONS

Typical processing conditions for M50022T are:

Barrel temperature: 190 - 230°C

Mold temperature: 15 - 60°C

Injection pressure: 600 -1000 Bar

STORAGE AND HANDLING

Polyethylene resin 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 do not 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.