

SABIC® LLDPE M550027T

LINEAR LOW DENSITY POLYETHYLENE
REGION ASIA

DESCRIPTION

SABIC®M550027T is a Linear Low Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give excellent flow properties with better low temperature toughness, stress crack resistance and gloss.

TYPICAL PROPERTY VALUES

Revision 20240709

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	50	g/10 min	ISO 1133
Density	926	kg/m ³	ISO 1183
MECHANICAL PROPERTIES			
Tensile stress at yield (50mm/min)	10	MPa	ISO 527-2 1A
Tensile stress at break (5mm/min)	7	MPa	ISO 527-2 1A
Tensile strain at break (5mm/min)	≥350	%	ISO 527-2 1A
Flexural Modulus (1% Secant)	270	MPa	ISO 178
Charpy Impact Notched @ 23°C	60	kJ/m ²	ISO 179
ESCR (100% Igepal), F50	6	Hrs	ASTM D1693B
THERMAL PROPERTIES			
Heat Deflection Temperature (455 kPa)	45	°C	ISO 75

PROCESSING CONDITIONS

Typical processing conditions for M550027T are: Barrel temperature: 180 - 230°C Mold temperature: 15 - 60 °C Injection pressure: 600 - 1000 Bar

HEALTH AND SAFETY CONSIDERATIONS AND PRECAUTIONS

M550027T is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate. DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications.

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.

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