

SABIC® LLDPE MG500026

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE MG50026 is a high flow Linear Low Density Polyethylene grade with a narrow molecular weight distribution. SABIC® LLDPE MG500026 resin is in powder form and is designed to give excellent flow properties with better low temperature toughness, stress crack resistance and gloss.

TYPICAL APPLICATIONS

SABIC® LLDPE MG500026 is typically used for injection moulding masterbatches where a high filler acceptance is required. Since the resin is supplied in free flowing powder form, it can be used for masterbatch production where PE powders are used. For example, carpet backing, metal coating and compounding for masterbatch production.

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	50	dg/min	ASTM D1238
Density	926	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
ESCR	2	h	ASTM D1693
Hardness Shore D	55	-	ISO 868
Tensile test			
stress at yield	13	MPa	ASTM D638
strain at break	120	%	ASTM D638
secant modulus at 1% elongation	354	MPa	ASTM D638
stress at break	12.4	MPa	ASTM D638
Izod impact notched at 23 °C	450	J/m	ASTM D256A
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	88	°C	ASTM D1525
Brittleness Temperature	<-75	°C	ASTM D746

PROCESSING CONDITIONS

Typical processing conditions for MG500026 are:

Barrel temperature: 180 - 230 °C

Mold temperature: 15 - 60 °C

Injection pressure: 600-1000 Bar

Material temperature 180 - 230 °C (355 - 450 °F)