SABIC® LLDPE MG200024

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPEMG200024 is a high flow linear low density polyethylene copolymer grade with a narrow molecular weight distribution. SABIC® LLDPE MG200024 is in powder form.

TYPICAL APPLICATIONS

SABIC® LLDPE MG200024 is typically used for masterbatches with very high carbon black, titanium dioxide or pigment content in blow moulding, injection moulding and film extrusion applications. Since the resin is supplied in free flowing powder form, it can be used for masterbatch production where PE powders are used.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20201211

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			
Tensile test (1)			
stress at yield	12	MPa	ASTM D638
strain at break	450	%	ASTM D638
stress at break	8.5	MPa	ASTM D638
secant modulus at 1% elongation	315	MPa	ASTM D638
Izod impact notched at 23 °C	540	J/m	ASTM D256A
Hardness Shore D	55	-	ISO 868
ESCR	24	h	ASTM D1693
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	94	°C	ASTM D1525
Brittleness Temperature	<-75	°C	ASTM D746

(1) propertiesTest specimen is prepared from compression moulded sheet made according to ASTM D-1928, procedure C.

PROCESSING CONDITIONS

Typical processing conditions for SABIC® LLDPE MG200024 are:

SABIC KSA

Barrel temperature: 190 - 230 °C

Mold temperature: 15 - 60 °C

Injection pressure: 600 -1000 Bar

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Material temperature 190 - 230 °C (380 - 450 °F)

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ENVIRONMENT AND RECYCLING

The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC Europe considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC Europe whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

STORAGE AND HANDLING

Polyethylenes resins (in pelletised or powder form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in colour changes, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

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