

SABIC® LLDPE MG200024

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE MG200024 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/m ³	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) properties Test 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

SABIC Europe

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

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.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.