

SABIC® LDPE 2404N0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2404N0 is a LDPE tubular grade without additives. The product is typically developed for cast film extrusion applications requiring an optimal relationship between draw down, purity and organoleptic properties.

Application

SABIC® LDPE 2404N0 can be used for a wide variety of cast film applications.

Properties

Mechanical properties have been determined on compression moulded test specimen (1,1 mm thick and 5,0 mm wide) at 50 mm/min.

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

TYPICAL PROPERTY VALUES

Revision 20190507

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	4.2	dg/min	ISO 1133
Density	924	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus	250	MPa	ISO 527-2
stress at break	12	MPa	ISO 527-2
strain at break	800	%	ISO 527-2
strain at yield	11	%	ISO 527-2
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	94	°C	ISO 306
DSC test			
melting point	111	°C	DIN 53765
enthalpy change	134	J/g	DIN 53765

STORAGE AND HANDLING

Polyethylene 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.

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 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 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.



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