SUPEER™ MLLDPE 7118NE

METALLOCENE C6 LLDPE

DESCRIPTION

SUPEER™ Metallocene Linear Low Density Polyethylene (mLLDPE) 7118NE is a metallocene ethylene-hexene copolymer. It has a good processability and performs well in a wide range of general purpose and high performance blown film applications. Films produced with this grade offer good tensile and impact strength, puncture resistance and sealing properties.
SUPEER™ Metallocene Linear Low Density Polyethylene (mLLDPE) 7118NE is typically used for applications like heavy duty bags, agriculture film, stretch hood, lamination film, frozen bags.
Properties have been measured on blown film of 25 µm and BUR = 2.5
Typical processing conditions for SUPEER™ Metallocene Linear Low Density Polyethylene (mLLDPE) 7118NE : processing temperatures 180 - 230 °C Blow up ratio: 2.0 - 4.0
This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20220923

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	1	dg/min	ASTM D1238
Density	918	kg/m³	ASTM D792
MECHANICAL PROPERTIES			
Dart Impact Strength (1)	30	g/µm	ASTM D1709
OPTICAL PROPERTIES			
Haze	20	%	ASTM D1003
FILM PROPERTIES			
Tear strength TD Elmendorf	18	g/µm	ASTM D1922
Tear strength MD Elmendorf	12	g/µm	ASTM D1922
Tensile test film			
Strain at break MD	550	%	ASTM D882
Strain at break TD	650	%	ASTM D882
Stress at break MD	60	MPa	ASTM D882
Stress at break TD	55	MPa	ASTM D882
Yield stress MD	10	MPa	ASTM D882
Yield stress TD	10	MPa	ASTM D882
THERMAL PROPERTIES			
DSC test			
melting point	122	°C	ASTM D3418
Vicat Softening Temperature			
at 10 N (VST/A)	106	°C	ISO 306

(1) Dart Impact F50 is measured via ASTM D1709 A

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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.

DISCLAIMER

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