

SUPEERT™ MLLDPE 7120BE

METALLOCENE C6 LLDPE

DESCRIPTION

SUPEERT™ 7120BE is a metallocene ethylene-hexene copolymer. It has a good processability for film extrusion via cast technology mainly due to its dedicated stabilization package. This grade is typically used to produce thin stiff stretch film for hand wrap and semi-automatic wrapper applications. Stretch film produced with this grade offers increased holding force, impact and puncture resistance. In silage wrap cast film 7120BE it also increases puncture resistance and shows a limiting neck-in.

Besides this, SUPEERT™ 7120BE can typically be used as booster resin for cast and blown stretch film that contain PCR (Post Consumer Recycling) material. Here it will boost mechanical properties, reduce gels during film extrusion and give smooth process ability.

Properties have been measured on cast film of 25 µm.

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

TYPICAL PROPERTY VALUES

Revision 20211214

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	920	kg/m ³	ASTM D792
FILM PROPERTIES			
Tear strength TD Elmendorf	23	g/µm	ASTM D1922
Tear strength MD Elmendorf	15	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	124	°C	ASTM D3418
Vicat Softening Temperature			
at 10 N (VST/A)	107	°C	ISO 306

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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