

SABIC® LDPE PCG06

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE grades for healthcare applications are produced under controlled conditions resulting in high product quality, consistency and a high level of purity.

SABIC® LDPE PCG06 is an additive-free grade with high purity and very low migration levels. It is typically used for semi-rigid IV containers for Large Volume Parenterals (LVP) obtained by Blow Fill Seal (BFS) process.

Compliance to Regulations

SABIC® LDPE PCG06 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

TYPICAL PROPERTY VALUES

Revision 20211203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	928	kg/m ³	ISO 1183
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.55	dg/min	ISO 1133
OPTICAL PROPERTIES			
Gloss (45°)	70	%	ASTM D2457
Haze	6	%	ASTM D1003
FILM PROPERTIES			
Impact strength	25	kJ/m	ASTM D4272
Tear strength TD	35	kN/m	ISO 6383-2
Tear strength MD	45	kN/m	ISO 6383-2
Tensile test film			
Stress at break TD	22	MPa	ISO 527-3
Stress at break MD	21	MPa	ISO 527-3
Yield stress TD	14	MPa	ISO 527-3
Modulus of elasticity TD	340	MPa	ISO 527-3
Modulus of elasticity MD	290	MPa	ISO 527-3
Yield stress MD	13	MPa	ISO 527-3
Tensile test film			
Strain at break TD	>500	%	ISO 527-3
Strain at break MD	>200	%	ISO 527-3
Coefficient of friction	1	-	ASTM D1894
Blocking	10	g	SABIC method
Re-blocking	30	g	SABIC method
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	106	°C	ISO 306
DSC test			
melting point	115	°C	DIN 53765

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CHEMISTRY THAT MATTERS™



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.

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.

DISCLAIMER

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