

# SABIC® LDPE PCG06

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

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).

General Information			
Features	High purity		
	Low density		
	No additive		
	Mobility Low to None		
Uses	Container		
	Medical/nursing supplies		
Agency Ratings	EP Unspecified Rating		
	USP Class VI		
Physical	Nominal Value	Unit	Test Method
Density	0.928	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.55	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	1.0		ASTM D1894
Films	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-3
MD	290	MPa	ISO 527-3
TD	340	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield	13.0	MPa	ISO 527-3
TD: Yield	14.0	MPa	ISO 527-3
MD: Fracture	21.0	MPa	ISO 527-3
TD: Fracture	22.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Fracture	> 200	%	ISO 527-3
TD: Fracture	> 500	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method

Impact Strength	250	J/cm	ASTM D4272
Blocking	10	g	Internal method
Re-blocking	30	g	Internal method
Tear Strength			ISO 6383-2
MD	45.0	kN/m	ISO 6383-2
TD	35.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ISO 306/A
Melting Temperature (DSC)	115	°C	DIN 53765
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	70		ASTM D2457
Haze	6.0	%	ASTM D1003A

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