

# SABIC® LDPE PCG80

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

Low density polyethylene for Healthcare

### 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 PCG80 is an additive free grade, typically designed for healthcare packaging and can typically be converted by Blow Fill Seal, Blow Molding and Blown Film to produce ampoules, small soft/flexible bottles and containers, but also bags and pouches. It has a low MFR and exhibits excellent draw down ability and mechanical properties in film applications.

### Compliance to Regulations

SABIC® LDPE PCG80 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI). The product mentioned herein may not be used for medical healthcare devices or materials intended for temporary or permanent implementation in the human body.

General Information			
Features	High purity		
	Low density		
	Good stripping		
	Low liquidity		
	No additive		
Uses	Bags		
	Bottle		
	Container		
	Medical/nursing supplies		
	Medical packaging		
Agency Ratings	EP Unspecified Rating		
	USP Class VI		
Forms	Particle		
Processing Method	Blow film		
	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.33	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	190	MPa	ISO 527-3
TD	190	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield	11.0	MPa	ISO 527-3
TD: Yield	11.0	MPa	ISO 527-3
MD: Fracture	27.0	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
Elmendorf Tear Strength			ISO 6383-2
MD	35000	N	ISO 6383-2
TD	40000	N	ISO 6383-2
Impact	Nominal Value	Unit	Test Method
Impact Strength	300	J/cm	ASTM D4272
Blocking	30	g	Internal method
Re-blocking		g	Internal method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ISO 306/A
Melting Temperature (DSC)	108	°C	DIN 53765
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	57		ASTM D2457
Clarity	25.0		Internal method
Haze	8.0	%	ASTM D1003A

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