

# SABIC® LDPE PCG81

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 PCG81 is an additive-free grade produced using SABIC's proprietary high pressure Clean Tubular Reactor (CTR®) which typically ensures grades with high purity. It is typically used for semi-rigid containers obtained by Blow Fill Seal (BFS) process and medical films.

### Compliance to Regulations

SABIC® LDPE PCG81 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

General Information			
Features	Additive Free		
	High Purity		
	Low Density		
Uses	Containers		
	Film		
	Medical/Healthcare Applications		
Agency Ratings	EP Unspecified Rating		
	USP Class VI		
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)	0.85	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	170	MPa	
TD	170	MPa	
Tensile Stress			ISO 527-3
MD : Yield	11.0	MPa	
TD : Yield	11.0	MPa	
MD : Break	25.0	MPa	
TD : Break	20.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break	> 200	%	
TD : Break	> 500	%	
Impact	Nominal Value	Unit	Test Method

Impact Strength	220	J/cm	ASTM D4272
Blocking	50	g	Internal Method
Re-blocking	100	g	Internal Method
Tear Strength			ISO 6383-2
MD	55.0	kN/m	
TD	45.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ISO 306/A
Melting Temperature (DSC)	109	°C	DIN 53765
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	68		ASTM D2457
Haze	6.0	%	ASTM D1003A

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