

SABIC® LDPE PCG81

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 PCG81 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, bottles, but also intermediate packaging (bags) for active pharmaceutical ingredients and secondary packaging.

Compliance to Regulations

SABIC® LDPE PCG81 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		
	No additive		
Uses	Bags		
	Bottle		
	Drug packaging		
	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 ³	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	ISO 527-3
TD	170	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	25.0	MPa	ISO 527-3
TD: Fracture	20.0	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	55000	N	ISO 6383-2
TD	45000	N	ISO 6383-2
Impact	Nominal Value	Unit	Test Method
Impact Strength	220	J/cm	ASTM D4272
Blocking	50	g	Internal method
Re-blocking		g	Internal method
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
Clarity	15.0		Internal method
Haze	6.0	%	ASTM D1003A

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