

SABIC® LDPE PCG22

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 PCG22 is an additive free grade, typically designed for healthcare packaging and can typically be converted by Injection Molding to produce caps and closures. It exhibits a high MFR for good flow properties.

Compliance to Regulations

SABIC® LDPE PCG22 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

General Information			
Features	Additive Free		
	Good Flow		
	High Purity		
	Low Density		
Uses	Caps		
	Closures		
	Medical Packaging		
	Medical/Healthcare Applications		
Agency Ratings	EP Unspecified Rating		
	USP Class VI		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	22	g/10 min	
190°C/5.0 kg	75	g/10 min	
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	29.0	cm ³ /10min	
190°C/5.0 kg	98.0	cm ³ /10min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	45		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	175	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	8.00	MPa	

Break, 2.00 mm, Compression Molded	7.00	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	400	%	ISO 527-2/1BA/50
Tensile Creep Modulus			ISO 899-1
1 hr	80.0	MPa	
1000 hr	45.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	5.0	kJ/m ²	
23°C, Compression Molded	42	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	39.0	°C	ISO 75-2/B
Vicat Softening Temperature	82.0	°C	ISO 306/A
Melting Temperature (DSC)	105	°C	DIN 53765
Enthalpy Change	104	J/g	DIN 53765

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