

SABIC® LDPE PCG09

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 PCG09 is an additive free grade, typically designed for healthcare packaging and can typically be converted by Injection Molding and Cast Film to produce caps and closures, small bottles and secondary packaging.

Compliance to Regulations

SABIC® LDPE PCG09 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	Bottles		
	Caps		
	Cast Film		
	Closures		
	Film		
	Medical Packaging		
	Medical/Healthcare Applications		
	Packaging		
Agency Ratings	EP Unspecified Rating		
	USP Class VI		
Processing Method	Cast Film		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	7.5	g/10 min	
190°C/5.0 kg	25	g/10 min	
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	10.0	cm ³ /10min	
190°C/5.0 kg	33.0	cm ³ /10min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	41		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	170	MPa	ISO 527-2/1A/50
Tensile Stress			ISO 527-2/1A/50
Yield, Injection Molded	9.00	MPa	
Break, Injection Molded	10.0	MPa	
Tensile Strain (Break, Injection Molded)	100	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Injection Molded	8.0	kJ/m ²	
23°C, Injection Molded	50	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	46.0	°C	ISO 75-2/B
Vicat Softening Temperature	93.0	°C	ISO 306/A
Melting Temperature (DSC)	110	°C	DIN 53765
Enthalpy Change	138	J/g	DIN 53765

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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