SABIC® LDPE PCG09

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 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). 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	Packaging
	Shield
	Bottle
	Shell
	Medical/nursing supplies
	Medical packaging
Agency Ratings	EP Unspecified Rating
	USP Class VI
Forms	Particle
Processing Method	cast film
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	7.5	g/10 min	ISO 1133
190°C/5.0 kg	25	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	10.0	cm³/10min	ISO 1133
190°C/5.0 kg	33.0	cm³/10min	ISO 1133

Environmental Stress-Cracking Resistance (60°C, 3.00mm, Rhodacal-DS10, injection molding)	1.00	hr	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness [1] (Shore D, Injection Molded)	41		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2] (Injection Molded)	170	MPa	ISO 527-2/1A/50
Tensile Stress [3]			ISO 527-2/1A/50
Yield, injection molding	9.00	MPa	ISO 527-2/1A/50
Fracture, injection molding	10.0	MPa	ISO 527-2/1A/50
Tensile Strain [4] (Break, Injection Molded)	100	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [5]			ISO 180/A
-30°C, injection molding	8.0	kJ/m^2	ISO 180/A
23°C, injection molding	50	kJ/m^2	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [6] (0.45 MPa, Unannealed)	46.0	°C	ISO 75-2/B
Vicat Softening Temperature [7]	93.0	°C	ISO 306/A
Melting Temperature (DSC)	110	°C	DIN 53765
Enthalpy Change	138	J/g	DIN 53765
NOTE			
1.	Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours		
2.	Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours		
3.	Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours		
4.	Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours		
5.	Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours		
6.	Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours		
7.	Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours		

Recommended distributors for this material

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