SABIC® LDPE PCG07

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 PCG07 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 and secondary packaging.
Compliance to Regulations
SABIC® LDPE PCG07 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	Shield
	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	0.920	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)	2.00	hr	Internal method

Hardness	Nominal Value	Unit	Test Method

Durometer Hardness [1] (Shore D, Injection Molded)	40		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2] (Injection Molded)	130	MPa	ISO 527-2/1A/50
Tensile Stress [3]			ISO 527-2/1A/50
Yield, injection molding	8.00	MPa	ISO 527-2/1A/50
Fracture, injection molding	10.0	MPa	ISO 527-2/1A/50
Tensile Strain [4] (Break, Injection Molded)	120	%	ISO 527-2/1A/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [5]			ISO 180/A
-30°C, injection molding	9.0	kJ/m^2	ISO 180/A
23°C, injection molding	45	kJ/m^2	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [6] (0.45 MPa, Unannealed)	43.0	°C	ISO 75-2/B
Vicat Softening Temperature [7]	89.0	°C	ISO 306/A
Melting Temperature (DSC)	107	°C	DIN 53765
Enthalpy Change	125	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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