SABIC® LDPE PCG00

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 PCGOO 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 and tubes. It has a low MFR and a high density to give excellent mechanical properties and higher temperature resistance.
Compliance to Regulations
SABIC® LDPE PCGOO 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 Heat resistance, high No additive
Uses	Pipe fittings Bottle 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	0.926	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.33	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	220	MPa	ISO 527-3
TD	220	MPa	ISO 527-3

Tensile Stress			ISO 527-3
MD: Yield	12.0	MPa	ISO 527-3
TD: Yield	12.0	MPa	ISO 527-3
MD: Fracture	28.0	MPa	ISO 527-3
TD: Fracture	25.0	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	35000	N	ISO 6383-2
TD	45000	N	ISO 6383-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Impact Strength	250	J/cm	ASTM D4272
Blocking	20	g	Internal method
Re-blocking		g	Internal method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	103	°C	ISO 306/A
Melting Temperature (DSC)	114	°C	DIN 53765
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°)	57		ASTM D2457
Clarity	25.0		Internal method
Haze	8.0	%	ASTM D1003A

Recommended distributors for this material

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