SABIC® LDPE PCG02

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 PCG02 is an additive-free grade produced using SABIC's proprietary high pressure Clean Tubular Reactor (CTR®) which typically ensures grades with high purity. It is typically used for semi-rigid containers obtained by Blow Fill Seal (BFS) process and medical films.
Compliance to Regulations
SABIC® LDPE PCG02 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	Containers Film Medical/Healthcare Applications
Agency Ratings	EP Unspecified Rating USP Class VI

Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9	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	190	MPa	
TD	190	MPa	
Tensile Stress			ISO 527-3
MD : Yield	11.0	MPa	
TD : Yield	11.0	MPa	
MD : Break	30.0	MPa	
TD : Break	17.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break	> 100	%	
TD : Break	> 500	%	
Impact	**Nominal Value**	**Unit**	**Test Method**

Impact Strength	200	J/cm	ASTM D4272
Blocking	20	g	Internal Method
Re-blocking	50	g	Internal Method
Tear Strength			ISO 6383-2
MD	70.0	kN/m	
TD	25.0	kN/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	91.0	°C	ISO 306/A
Melting Temperature (DSC)	108	°C	DIN 53765
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°)	53		ASTM D2457
Haze	10	%	ASTM D1003A

Recommended distributors for this material

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