

SABIC® LDPE PCG00

LOW DENSITY POLYETHYLENE

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 PCG00 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 PCG00 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.4	dg/min	ISO 1133
Density	925	kg/m ³	ASTM D1505
OPTICAL PROPERTIES			
Haze	11	%	ASTM D1003
FILM PROPERTIES			
Impact strength	20	kJ/m	ASTM D4272
Tear strength TD	40	kN/m	ISO 6383-2
Tear strength MD	35	kN/m	ISO 6383-2
Tensile test film			
Stress at break TD	23	MPa	ISO 527-3
Yield stress TD	12	MPa	ISO 527-3
Stress at break MD	27	MPa	ISO 527-3
Modulus of elasticity TD	210	MPa	ISO 527-3
Tensile test film			
Strain at break TD	>500	%	ISO 527-3
Strain at break MD	>200	%	ISO 527-3
Coefficient of friction	0.9	-	ASTM D1894
Blocking	20	g	SABIC method
Re-blocking	<5	g	SABIC method
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	98	°C	ISO 306
DSC test			
melting point	114	°C	DIN 53765