

# 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
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.4	dg/min	ISO 1133
Density	925	kg/m <sup>3</sup>	ASTM D1505
<b>OPTICAL PROPERTIES</b>			
Haze	11	%	ASTM D1003
<b>FILM PROPERTIES</b>			
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
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature			
at 10 N (VST/A)	98	°C	ISO 306
DSC test			
melting point	114	°C	DIN 53765