

# SABIC® LDPE PCG02

## 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 PCG02 is an additive-free grade produced using SABIC's proprietary high pressure CleanTubular 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).

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	1.9	dg/min	ISO 1133
<b>OPTICAL PROPERTIES</b>			
Gloss (45°)	53	%	ASTM D2457
Haze	10	%	ASTM D1003
<b>FILM PROPERTIES</b>			
Impact strength	20	kJ/m	ASTM D4272
Tear strength TD	25	kN/m	ISO 6383-2
Tear strength MD	70	kN/m	ISO 6383-2
<b>Tensile test film</b>			
Modulus of elasticity TD	190	MPa	ISO 527-3
Stress at break TD	17	MPa	ISO 527-3
Yield stress TD	11	MPa	ISO 527-3
Stress at break MD	30	MPa	ISO 527-3
<b>Tensile test film</b>			
Strain at break MD	>100	%	ISO 527-3
Strain at break TD	>500	%	ISO 527-3
<b>Coefficient of friction</b>			
>1	-	-	ASTM D1894
<b>Blocking</b>			
20	g	-	SABIC method
<b>Re-blocking</b>			
50	g	-	SABIC method
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	91	°C	ISO 306
<b>DSC test</b>			
melting point	108	°C	DIN 53765