

SABIC® LLDPE PCG61

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE PCG61 is a hexene-linear low density polyethylene typically used for healthcare applications. Films made from this resin exhibit good mechanical, optical and hottack properties.

Application
Typical application for SABIC® LLDPE PCG61 are pharmaceutical films, bags and pouches requiring good impact strength, tear resistance, optical performance and hottack properties.

Compliance to Regulations
SABIC® LLDPE PCG6118NE complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

General Information	
Additive	Antioxidation
Features	Low density
	Optical
	hexene comonomer
	Antioxidation
	Impact resistance, good
	Good tear strength
Uses	Films
	Bags
	Drug
	Medical/nursing supplies
Agency Ratings	EP Unspecified Rating
	USP Class VI

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
MD: 50 µm, blown film	190	MPa	ISO 527-3
TD: 50 µm, blown film	230	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	12.5	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	47.0	MPa	ISO 527-3

TD: Broken, 50 µm, blown film	40.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	630	%	ISO 527-3
TD: Broken, 50 µm, blown film	800	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Impact Strength - Blown Film (50.0 µm)	350	J/cm	ASTM D4272
Puncture Resistance - Blown Film (50.0 µm)	750	J/m	Internal method
Tear Strength ¹			ISO 6383-2
MD : 50.0 µm	100.0	kN/m	ISO 6383-2
TD : 50.0 µm	400.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ISO 306/A
Melting Temperature (DSC)	124	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Blown Film)	57		ASTM D2457
Haze (Blown Film)	13	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method
Film of 50 µm and BUR = 2 has been produced on Kiefel IBC with 140 kg/h. Die size 200 mm, die gap 2.7 mm.			
NOTE			
1.	Blown Film		

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