

SABIC® LLDPE PCG61

(PE-LLD)

Saudi Basic Industries Corporation (SABIC)

Product Texts

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. Typical application for SABIC® LLDPE PCG61 are pharmaceutical films, bags and pouches requiring good impact strength, tear resistance, optical performance and hottack properties. Film properties: 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. Compliance to Regulations SABIC® LLDPE PCG61 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, A	106	°C	ISO 306

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	13	%	ASTM D 1003

Film Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus, parallel	190	MPa	ISO 527-3
Tensile Modulus, normal	230	MPa	ISO 527-3
Stress at yield, parallel	11	MPa	ISO 527-3
Stress at yield, normal	12.5	MPa	ISO 527-3
Stress at break, parallel	47	MPa	ISO 527-3
Stress at break, normal	40	MPa	ISO 527-3
Trouser Tear resistance, parallel	100	N/mm	ISO 6383-1
Trouser Tear resistance, normal	400	N/mm	ISO 6383-1

Characteristics

Certifications

US Pharmacopoeia Class VI Approved