

# SABIC® HDPE PCG4906

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® HDPE grades for healthcare applications are produced under controlled conditions resulting in high product quality, consistency and a high level of purity.

SABIC® HDPE PCG4906 is typically used for the blow moulding of healthcare industrial packaging (IBC, open head and tight head drums, jerry cans). The product features good stiffness/ESCR balance combined with good process ability.

Compliance to regulations.

SABIC® HDPE PCG4906 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

General Information			
Features	Good Processability		
	Good Stiffness		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Purity		
Uses	Drums		
	Medical Packaging		
	Medical/Healthcare Applications		
Agency Ratings	EP Unspecified Rating		
	USP Class VI		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	950	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	23.0	MPa	
Break, 2.00 mm, Compression Molded	34.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1000	MPa	ISO 178

Flexural Stress (2.00 mm, Compression Molded)	24.0	MPa	ISO 178
ESCR (Strain Hardening) - Gp	30.0	MPa	Internal Method
Enthalpy Change	192	J/g	ISO 11357-3
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (-30°C, Compression Molded)	17	kJ/m <sup>2</sup>	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	77.0	°C	ISO 75-2/B
Vicat Softening Temperature	126	°C	ISO 306/A
Melting Temperature (DSC)	131	°C	ISO 11357-3

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