

SABIC® HDPE PCGF0863

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 PCGF0863 resin is a high density homopolymer with good barrier properties. The grade offers high stiffness, high temperature resistance and relatively high grease resistance. The resin has a low gel level.

Application

SABIC® HDPE PCGF0863 is typically used for flexible packaging, pharmaceuticals and devices and release liners.

Compliance to regulations

SABIC® HDPE PCGF0863 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

General Information	
Additive	Antioxidation
Features	High purity
	Low speed solidification crystal point
	Rigidity, high
	High density
	Homopolymer
	Antioxidation
	Heat resistance, high
	Grease resistance
Uses	Barrier resin
	Packaging
	Lining
	Drug
Agency Ratings	Medical/nursing supplies
	EP Unspecified Rating
USP Class VI	

Physical	Nominal Value	Unit	Test Method
Density	0.964	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Modulus			ISO 527-3
MD: 25 µm, cast film	580	MPa	ISO 527-3
TD: 25 µm, cast film	580	MPa	ISO 527-3
Tensile Stress			ISO 527-3

MD: Yield, 25 µm, cast film	26.0	MPa	ISO 527-3
TD: Yield, 25 µm, cast film	24.0	MPa	ISO 527-3
MD: Fracture, 25 µm, cast film	22.0	MPa	ISO 527-3
TD: Fracture, 25 µm, cast film	18.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Fracture, 25 µm, cast film	700	%	ISO 527-3
TD: Fracture, 25 µm, cast film	800	%	ISO 527-3
Oxygen Permeability ¹ (23°C, 25 µm, Cast Film)	0.100	cm ³ /m ² /24 hr	Internal method
Water Vapor Transmission Rate (38°C, 100% RH, 25 µm, Cast Film)	4.0	g/m ² /24 hr	Internal method
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	134	°C	DIN 53765
Enthalpy Change	224	J/g	DIN 53765
NOTE			
1.	0% RH		

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