SABIC® HDPE PCG5421

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 PCG5421 is typically used for the blow moulding of healthcare packaging (bottles and cans). The product features a good stiffness/ESCR balance combined with good process ability.

Compliance to regulations

SABIC® HDPE PCG5421 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	Bottles		
	Medical Packaging		
	Medical/Healthcare Applications		
Agency Ratings	EP Unspecified Rating		
	USP Class VI		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.16	g/10 min	
190°C/21.6 kg	20	g/10 min	
190°C/5.0 kg	0.89	g/10 min	
Environmental Stress-Cracking Resistance			
' (75°C, 1.00 mm, Rhodacal-DS10, Compression Molded)	16.0	hr	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression			
Molded)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression	1050		
Taraila Stara	ועכעו	IVIFa	ISO 527-2/18A/50
	26.0		ISU 527-2/18A/50
Yield, 2.00 mm, Compression Molded	26.0	МРа	

Break, 2.00 mm, Compression Molded	27.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1250	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	27.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	6.0	kJ/m²	
23°C, Compression Molded	14	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	81.0	°C	ISO 75-2/B
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature (DSC)	132	°C	ISO 11357-3
Enthalpy Change	205	J/g	ISO 11357-3
NOTE			
1.	3 MPa		

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