

SABIC® HDPE PCG3054

High Density Polyethylene Copolymer

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 PCG3054 is a high density polyethylene copolymer injection moulding grade. Its narrow molecular weight distribution and high flow results in low warpage, good rigidity, good gloss and fast moulding cycles.

SABIC® HDPE PCG3054 is typically used for healthcare packaging applications like, syringes, caps and closures, thin wall articles and other parts for medical devices.

Compliance to regulations.

SABIC® HDPE PCG3054 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

General Information			
Features	Copolymer		
	Fast Molding Cycle		
	High Density		
	High Flow		
	High Purity		
	Low Warpage		
	Medium Gloss		
	Medium Rigidity		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
	Medical Devices		
	Medical Packaging		
	Medical/Healthcare Applications		
	Thin-walled Parts		
Agency Ratings	EP Unspecified Rating		
	USP Class VI		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	30	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (60°C, 3.00 mm, Rhodacal-DS10, Compression Molded)	40.0	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 Molded)	1100	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	26.0	MPa	
Break, 2.00 mm, Compression Molded	25.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 200	%	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 (23°C, Compression Molded)	3.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	82.0	°C	ISO 75-2/B
Vicat Softening Temperature	125	°C	ISO 306/A
Melting Temperature (DSC)	132	°C	ISO 11357-3
Enthalpy Change	205	J/g	ISO 11357-3
NOTE			
1.	2 MPa		

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