SABIC® HDPE PCG300054

High Density Polyethylene Copolymer

SABIC Americas, Inc.

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 PCG300054 is a high density polyethylene copolymer injection moulding grade. Its narrow molecular weight distribution and high flow results in low warpage, good rigidity, excellent gloss and fast moulding cycles.
SABIC® HDPE PCG300054 is recommended for healthcare packaging applications like, syringes, caps and closures, thin wall articles and other parts for medical devices.
SABIC® HDPE PCG300054 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).
The product mentioned herein may not be used for medical healthcare devices or materials intended for temporary or permanent implementation in the human body.

General Information	
Features	Copolymer
	Fast Molding Cycle
	High Flow
	High Gloss
	High Purity
	High Rigidity
	Low Warpage
	Narrow Molecular Weight Distribution
Uses	Caps
	Closures
	Medical Packaging
	Medical/Healthcare Applications
	Packaging
	Thin-walled Parts
Agency Ratings	EP Unspecified Rating
	USP Class VI
Forms	Pellets
Processing Method	Injection 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	30	g/10 min	
190°C/5.0 kg	80	g/10 min	
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	40.0	cm³/10min	

190°C/5.0 kg	105	cm^3/10min	
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	24.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 200	%	ISO 527-2/1BA/50
Tensile Creep Modulus			ISO 899-1
1 hr	500	MPa	
1000 hr	225	MPa	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	3.0	kJ/m^2	
23°C, Compression Molded	3.0	kJ/m^2	
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	DIN 53765
Enthalpy Change	205	J/g	DIN 53765

Recommended distributors for this material

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