SABIC® HDPE PCG80063

High Density Polyethylene

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 PCG80063 is designed for the injection moulding of healthcare packaging, caps and closures and other parts for medical packaging. It is an easy-to-process, stiff grade.
SABIC® HDPE PCG80063 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	Good Processability Good Stiffness High Purity		
Uses	Caps Closures Medical Packaging Medical/Healthcare Applications Packaging		
Agency Ratings	EP Unspecified Rating USP Class VI		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.963	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	8.0	g/10 min	
190°C/5.0 kg	23	g/10 min	
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	11.0	cm³/10min	
190°C/5.0 kg	30.0	cm³/10min	
Environmental Stress-Cracking Resistance [1] (60°C, 3.00 mm, Rhodacal-DS10)	40.0	hr	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, Compression Molded)	65		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus (2.00 mm, Compression Molded)	1450	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	31.0	MPa	
Break, 2.00 mm, Compression Molded	15.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 200	%	ISO 527-2/1BA/50
Tensile Creep Modulus			ISO 899-1
1 hr	625	MPa	
1000 hr	275	MPa	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	4.0	kJ/m^2	
23°C, Compression Molded	4.0	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	94.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	134	°C	DIN 53765
Enthalpy Change	226	J/g	DIN 53765
NOTE			
1.	2 MPa		

Recommended distributors for this material

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