

Product Texts

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 PCG863 is typically used for the injection molding of healthcare packaging, caps and closures and other parts for medical packaging. It is an easy-to-process, stiff grade. Compliance to regulations. SABIC® HDPE PCG863 complies with the relevant monographs of the European Pharmacopoeia (EP) and the United States Pharmacopoeia (USPVI).

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1450	MPa	ISO 527
Yield stress	31	MPa	ISO 527
Stress at break	15	MPa	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	1650	MPa	ISO 178
Flexural strength	32	MPa	ISO 178
Shore D hardness	65	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	134	°C	ISO 11357-1/-3
Temp. of deflection under load, 0.45 MPa	94	°C	ISO 75-1/-2
Vicat softening temperature, A	129	°C	ISO 306

Characteristics**Processing**

Injection Molding

Certifications

US Pharmacopoeia Class VI Approved