

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 PCG453 is typically used for the injection molding of healthcare packaging, caps and closures and other parts for medical packaging. This grade has a very high impact resistance, even at low temperatures. Compliance to regulations. SABIC® HDPE PCG453 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	1100	MPa	ISO 527
Yield stress	26	MPa	ISO 527
Stress at break	25	MPa	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	1200	MPa	ISO 178
Flexural strength	26	MPa	ISO 178
Shore D hardness	61	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	132	°C	ISO 11357-1/-3
Temp. of deflection under load, 0.45 MPa	81	°C	ISO 75-1/-2
Vicat softening temperature, A	124	°C	ISO 306

Characteristics**Processing**

Injection Molding

Certifications

US Pharmacopoeia Class VI Approved