

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 PCG5421 is typically used for the blow molding of healthcare packaging (bottles and cans). The product features a good stiffness/ESCR balance combined with good process ability. Compliance to regulations. SABIC® HDPE PCG5421 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	1050	MPa	ISO 527
Yield stress	26	MPa	ISO 527
Stress at break	27	MPa	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	1250	MPa	ISO 178
Flexural strength	27	MPa	ISO 178
Izod notched impact strength	6	kJ/m ²	ISO 180/1A
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	127	°C	ISO 306

Characteristics**Certifications**

US Pharmacopoeia Class VI Approved