

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 PCG3054 is a high density polyethylene copolymer injection molding grade. Its narrow molecular weight distribution and high flow results in low warpage, good rigidity, good gloss and fast molding cycles. SABIC® HDPE PCG3054 is typically used for healthcare packaging applications like, syringes, caps and closures, thin wall articles and other parts for medical devices. Compliance to regulations. SABIC® HDPE PCG3054 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	1250	MPa	ISO 178
Flexural strength	27	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	82	°C	ISO 75-1/-2
Vicat softening temperature, A	125	°C	ISO 306

Characteristics

Processing

Injection Molding

Certifications

US Pharmacopoeia Class VI Approved

Features

Copolymer