

## SABIC INTRODUCES HDPE PCG5628 FOR MEDICAL AND HEALTHCARE APPLICATIONS

SABIC HDPE PCG5628 is high density polyethylene specifically designed for healthcare applications which is produced under controlled conditions resulting in high product quality, consistency and a high level of purity. SABIC HDPE PCG5628 can be utilized for the blow molding of healthcare packaging. The product features a high stiffness and excellent ESCR combined with good processability.

### INDUSTRY CHALLENGES

Producing medical and healthcare products (e.g., bottles and cans ) that meet rigorous regulatory and safety standards (e.g., ISO 10993 biocompatibility), with low extractable and high chemical resistance while maintaining mechanical performance throughout their shelf-life.

SABIC HDPE PCG5628 should offer a solution to these challenges.

### POTENTIAL BENEFITS



#### ENVIRONMENTAL STRESS CRACKING RESISTANCE

RESISTANT TO CRACKING UNDER INFLUENCE OF CHEMICALS & STRESS



#### STRONG BALANCE OF MECHANICAL PROPERTIES

HIGH STIFFNESS WITHOUT AFFECTING IMPACT PERFORMANCE



#### BIOCOMPATIBLE AND PHARMACOPEIA-COMPLIANT

ISO 10993 AND MONOGRAPH 3.1.5 OF THE EUROPEAN PHARMACOPEIA



#### SUITABLE FOR EXTRUSION BLOW MOLDING

INCLUDING INJECTION STRETCH BLOW MOLDING



#### SABIC HEALTHCARE PRODUCT POLICY

FORMULATION LOCK FOR MATERIAL CONSISTENCY



#### LOW EXTRACTABLES

ENSURE VERY LOW EXTRACTABLES & LEACHABLES.



# SABIC HDPE PCG5628 FOR MEDICAL AND HEALTHCARE APPLICATIONS

## SABIC® HDPE PCG5628 APPLICATIONS:

SABIC® HDPE PCG5628 can be utilized for the blow molding of healthcare packaging such as tablet bottles and medical jerry cans . The product features a good stiffness and excellent ESCR combined with good process ability.

## SABIC® HDPE PCG5628 PROPERTIES<sup>(1)</sup>:

PARAMETERS	UNIT	TEST METHOD	VALUE
Melt flow rate @ 190°C & 21.6 kg load	g/10min	ASTM D1238	24
Density at 23°C	kg/m <sup>3</sup>	ASTM D1505	955
Tensile Strength @ Yield, 500mm/min, Type IV bar	MPa	ASTM D638	30
Izod impact notched @ 23 °C	J/m	ASTM D-256	148
Vicat softening point Loading 1, Rate A	°C	ASTM D1505	127

(1) Typical values; not to be construed as specification limits.

KEY CHARACTERISTIC	TYPICAL BENEFITS
Excellent ESCR	Better chemical and stress resistance for longer product life
High Die Swell	Uniform behaviour in extrusion blow molding
Low Extractables	Cleaner product
Biocompatible and Pharmacopoeia-compliant	Consumer safety



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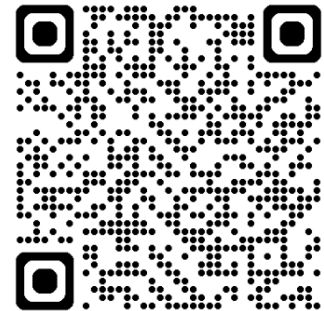
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