

SABIC INTRODUCES PP PCGH24 FOR MEDICAL AND HEALTHCARE APPLICATIONS

SABIC PP PCGH24 is a phthalate-free and peroxide-free polypropylene homopolymer material specifically designed for healthcare applications. It is modified with a clarifier and a slip/antistatic agent, offering good clarity and dimensional stability, high stiffness, and excellent processability and demolding properties. PCGH24 is biocompatibility-assessed and is produced under controlled conditions resulting in high product quality, consistency, and a high level of purity.

INDUSTRY CHALLENGES

Producing medical and healthcare products (e.g., disposable syringes) that meet rigorous regulatory and safety standards (e.g., ISO 10993 biocompatibility), withstand sterilization, have high optical clarity, and maintain performance throughout their shelf life.

SABIC PP PCGH24 could offer a solution to these challenges



POTENTIAL BENEFITS



PHthalate-FREE
FOR CONSUMER SAFETY



STRONG BALANCE OF MECHANICAL PROPERTIES
HIGH STIFFNESS WITHOUT AFFECTING IMPACT PERFORMANCE



PEROXIDE-FREE
FOR EXCELLENT ORGANOLEPTIC PROPERTIES



GOOD CLARITY
BETTER THAN REGULAR HOMOPOYLMER PP



BIOCOMPATIBLE AND PHARMACOPEIA-COMPLIANT
ISO 10993 and Monograph 3.1.6 of the European Pharmacopoeia



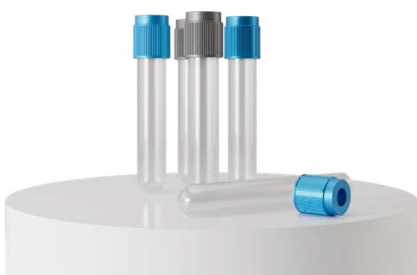
HIGH DIMENSIONAL STABILITY
LOW WARPAGE – SIMILAR SHRINKAGE IN ALL DIRECTIONS (ISOTROPIC)



SABIC HEALTHCARE PRODUCT POLICY
FORMULATION LOCK FOR MATERIAL CONSISTENCY



HIGHER STIFFNESS AT HIGHER TEMPERATURES
FOR AUTOCLAVE STERILIZATION



SABIC PP PCGH24 HOMOPOLYMER PP FOR MEDICAL AND HEALTHCARE APPLICATIONS

SABIC PP PCGH24 APPLICATIONS:

SABIC PP PCGH24 is typically used for injection molding of healthcare applications such as caps and closures, 3-part syringes, and other thin-wall applications. This grade offers a high stiffness combined with excellent clarity and warpage performance.

SABIC PP PCGH24 PROPERTIES⁽¹⁾:

PARAMETERS	UNIT	TEST METHOD	VALUE
Melt flow rate @ 230°C	g/10min	ASTM D1238	24
Strength @ Yield	MPa	ASTM D638	37
Notched Izod impact strength @ 23°C	J/m	ASTM D256	28
Flexural modulus (1% secant)	MPa	ASTM D790A	1800
Vicat softening point	°C	ASTM D1525	155

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

KEY CHARACTERISTICS	BENEFITS
Phthalate-free	Cleaner product
Reactor grade (peroxide-free)	Low transmission of odor, taste & VOC in compounds
Optimum additive package	Nucleated & with antistatic, shrinkage isotropy
Biocompatible and Pharmacopoeia-compliant	Consumer safety

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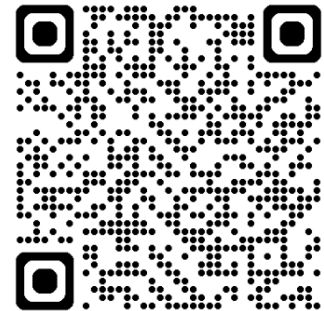
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