

SIMONA® PP-H USP Class VI

Meets USP Class VI requirements for use in medical and pharmaceutical applications



Biocontainer tote made with SIMONA® PP-H USP Class VI

SIMONA® PP-H USP Class VI sheet is ideal for applications requiring biocompatibility testing standards defined by ISO 10993:1. SIMONA PP-H USP Class VI sheet material is easy to clean and disinfect using most hospital grade cleaners and disinfectants.

In addition, SIMONA PP-H USP Class VI sheet delivers high chemical and corrosion resistance, excellent surface appearance, with high durability and strength.

When forming and fabricating, the machinability is highly consistent and dimensionally stable, featuring superior flatness and low inherent stress, making it conducive to fabricating more complex shapes.

PROPERTIES: SIMONA® Polypropylene Homopolymer (PP-H) Sheet

PROPERTY unit of measure ¹	Test Method	TYPICAL VALUES
Specific Gravity	ASTM D792	.905
Water Absorption (%)	ASTM D570	<0.01
MECHANICAL		
Tensile Strength (yield) (psi)	ASTM D638	4,800 (33.1 MPa)
Elongation (break)	ASTM D638	>100
Flexural Modulus of Elasticity (MPa)	ASTM D790	195,000 (1,345.5 MPa)
Notched Izod Impact	ASTM D256	0.9 ft-lb/in. (48.06 J/m)
Shore D Hardness	ASTM D2240	70
THERMAL		
Continuous Service Temperature	Maximum	212 °F (100 °C)
Melting Point	ASTM D3418	320-239 °F (160-165 °C)
Coefficient of Expansion in./in./ °F x 10 ⁻⁵ (mm/mm, °C x 10 ⁻⁵)	ASTM D696	8.88 in./in.,°F (15.8 mm/mm, °C)
Food Contact	FDA Reg. 21 Chapter 1 part 177.2510	Yes

¹All tests at 73 °F (22.8 °C) in dry conditions unless otherwise noted.

SIMONA AMERICA Industries has several grades of high performance plastics to choose from for medical and pharmaceutical applications depending on your flammability, chemical resistance and processing requirements. Please contact your local SIMONA representative to discuss your specific needs.

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Advantages

- Meets USP Class VI requirements
- Animal Derivative Free resin (ADF)
- Heat deflection temp @66psi = 210 °F
- Low moisture absorption
- Translucent for viewing liquid level
- Easy, consistent fabrication

Applications

- Biocontainer bag transport totes
- Soak tanks
- Animal feeding and bedding carts
- Sterilization trays
- Carboys

Configurations

- Sheet
 - 48 x 96 in.
(1,220 mm x 2,440 mm)
- Custom length sheet on request
- Gauges
 - 0.250, 0.375, 0.50 in.
(6.35, 9.25, 12.7 mm)
- Colors
 - Natural (opaque)



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