

# SIMONA® Polypropylene Copolymer (PP-C)



*This stress crack-resistant polymer provides superior performance at lower temperatures compared to PP-H*



SIMONA® PP-C is a high impact, scratch-resistant material that provides excellent performance in corrosive environments. Copolymer polypropylene is the most versatile polypropylene material.

Due to its high impact strength, even at low temperatures, SIMONA® PP-C is the material of choice for numerous applications, including galvanizing tanks, fire truck tanks and apparatuses, orthotic and prosthetic devices, and food processing components.

During fabrication and machining, SIMONA PP-C maintains exceptional flatness and dimensional stability for high production yields and finished part quality. The material is also easy to weld and thermoform.

Complementary SIMONA PP-C weld rod is also available.

## Advantages

- Higher impact resistance
- Easy to fabricate, weld, and machine
- Lower degree of rigidity vs. Homopolymer PP
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- Maintenance-free, easy to clean
- Excellent resistance to fractures at low temperatures

## Applications

- Fire truck tank and equipment
- Chemical tank and equipment construction
- Orthotic and prosthetic
- Die pads
- Food processing components
- Waste water management

## Configurations

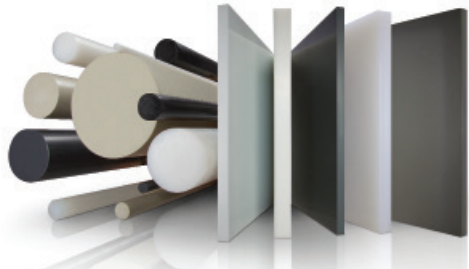
- Sheet sizes
  - 48 x 96, 48 x 120, and 60 x 120 in.
- Gauges
  - .062 to 2.0 in. (1.57 to 50.8 mm)
- Colors
  - Natural
  - White
  - Black
  - Eurogrey
- Texture
  - Smooth/Smooth
  - Matte/Matte
- Masking
  - 1 or 2 sides available
- Custom colors and sizes on request



**PROPERTIES SIMONA® PP-C**

PROPERTY, Units of Measure <sup>1</sup>	Test Method	TYPICAL VALUES	
		SIMONA® PP-C	
Specific Gravity	ASTM D792	< 0.905 g/cc	
Water Absorption, %	ASTM D570	< 0.01	
<b>MECHANICAL</b>			
Tensile Strength @ Yield	ASTM D638	3,600 psi	24.82 MPa
Elongation @ Break, %	ASTM D638	> 500%	
Flexural Modulus	ASTM D790	155,000 psi	1,068 MPa
Notched Izod Impact	ASTM D256	no break	
Hardness, Shore D	ASTM D2240	70	
Coefficient of Expansion x 10 <sup>-5</sup>	ASTM D696	8.88 in./in., °F	15.8 mm/mm, C°
<b>THERMAL</b>			
Continuous Service Temperature	Maximum	180° F	82° C
Melting Point	ASTM D3418	267° F	56° C
<b>COMPLIANCE</b>			
Food Contact	FDA reg. 21 Chapter 1 part 177.2510	Yes	
Flammability	UL94	Yes	

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



SIMONA AMERICA Industries offers the widest product range of PVC sheet and rod – FM 4910 rated sheet – chemical resistant materials from PVC, PP and PE to fluoropolymers – orthotics and prosthetics sheet – SIMONA Boltaron® aircraft sheet – plus proven products for boat building, outdoor furniture and many other industries.

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