

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
- Lower degree of rigidity vs. Homopolymer PP
- 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

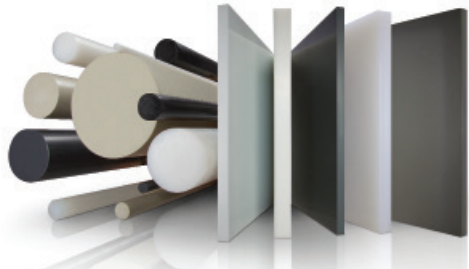
- Sheet sizes
 - 48 x 96, 48 x 120, and 60 x 120 in.
- Gauges
 - .062 to 2.0 in. (1.57 to 50.8 mm)
- Colors
 - Natural
 - White
 - Black
 - Eurogrey
- Texture
 - Smooth/Smooth
 - Matte/Matte
- Maskingv
 - 1 or 2 sides available
- Custom colors and sizes on request



PROPERTIES SIMONA® PP-C

PROPERTY, Units of Measure ¹	Test Method	TYPICAL VALUES	
		SIMONA® PP-C	
Specific Gravity	ASTM D792	< 0.905 g/cc	
Water Absorption, %	ASTM D570	< 0.01	
MECHANICAL			
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 ⁻⁵	ASTM D696	8.88 in./in., °F	15.8 mm/mm, C°
THERMAL			
Continuous Service Temperature	Maximum	180° F	82° C
Melting Point	ASTM D3418	267° F	56° C
COMPLIANCE			
Food Contact	FDA reg. 21 Chapter 1 part 177.2510	Yes	
Flammability	UL94	Yes	

¹All 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.

1-888-CURBELL
www.curbellplastics.com

Curbell Plastics is a proud supplier of SIMONA America materials.

SIMONA AMERICA Industries
 101 Power Blvd.
 Archbald, PA 18403
 Phone 1 866 501 2992
 Fax 1 800 522 4857
sales@simona-america.com
www.simona-america.com

DISCLAIMER AND LIMITATION OF WARRANTY:
 All information contained herein is believed by SIMONA AMERICA Industries to be reliable. Typical properties are based on laboratory tests conducted on material samples in accordance with standard test methodology. SIMONA AMERICA Industries makes no express or implied warranty that its products will perform in accordance with the data in all conditions and circumstances. To determine suitability for use, users must test applications under actual operating conditions. As a result, ALL EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH SIMONA AMERICA Industries PRODUCTS INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED.