

Simona® PPC Sheet



Polypropylene is a member of the polyolefin family of the thermoplastics, polypropylene exhibits properties that make it an excellent choice for corrosion resistant applications. Homopolymer Polypropylene is the most widely utilized.

Copolymer Polypropylene involves the introduction of a second monomer to the propylene monomer during the polymerization process. The resin manufacture will introduce a small percentage of ethylene monomer to the propylene monomer resulting in a product that exhibits better impact strength than Homopolymer Polypropylene. When compared to Homopolymer Polypropylene rigidity, chemical resistance and temperature resistance properties of Copolymer Polypropylene are slightly lower.

Applications:

- Tanks and linings
- Lab equipment
- Etching equipment
- Fume hoods, duct work
- Battery cases
- Machined parts
- Industrial doors

Features:

- High impact resistance
- Excellent chemical and corrosion resistance
- Excellent impact strength at low temperatures
- Lightweight
- Excellent formability
- Good abrasion resistance
- Good electrical properties

DESCRIPTION	SIZE	PROTECTION	SIZE RANGE
570 Natural	48" x 96"	without protective foil	1/8" to 1 1/2"
590 Black	48" x 96"	2 side protective foil	1/4" to 1 1/2"
570 Natural	48" x 120"	without protective foil	1/4" to 1"
590 Black	48" x 120"	2 side protective foil	1/4" to 1"
570 Natural	60" x 120"	without protective foil	1/4" to 1 1/2"
590 Black	60" x 120"	2 side protective foil	1/2" to 1 1/2"

TECHNICAL DATA

	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Density	ASTM D-792	g/cc	0.905
Water Absorption (24 hrs @ 73 °F)	ASTM D-570	%	<0.01
MECHANICAL			
Tensile Strength	ASTM D-638	PSI	3,600
Tensile Modulus	ASTM D-638	PSI	150,000
Elongation	ASTM D-638	%	7500
Izod Impact	ASTM D-256	ft. lbs./in.	No Break
Hardness, Shore D	ASTM D-2240		80
THERMAL			
Heat Distortion Temperature at 66 psi	ASTM D-648	°F	180
Heat Distortion Temperature at 264 psi	ASTM D-648	°F	133
Coefficient of Thermal Expansion	ASTM D-696	in./in. °C	8.88 x 10 ⁻⁵
Temperature Range		°F	-4 to +180
FLAMMABILITY			
Flammability			normal flammability

Notes:

- Call for custom lengths, other sizes, colors or special requirements.
- Also available in metric sizes in white grey, euro grey, and black.