

# Boltaron® 4050

TYPE II PVC

## CHARACTERISTICS

- High impact
- Corrosion resistant
- Suitable for thermoforming
- Conforms to ASTM D1784
- Smooth finish
- Meets LP535A Comp A

## USES

- Semiconductor cleanroom parts
- Machined parts
- Fume hoods
- Acid etching, and acid tanks
- Linings and thermoformed parts

## PERFORMANCE DETAILS

### PROPERTIES

Specific Gravity (ASTM D792)	1.35	
Tensile Strength (ASTM D638)	5,600 psi	39 MPa
Elongation Ultimate (ASTM D638)	122%	
Elongation Yield (ASTM D638)	4%	
Modulus of Elasticity (ASTM D638)	3.2 x10 <sup>5</sup> psi	2,206 MPa
Flexural Strength (ASTM D790)	8,000 psi	55 MPa
Flexural Modulus (ASTM D790)	3.0 x10 <sup>5</sup> psi	2,068 MPa
Izod Impact Notched (ASTM D256)	73 °F 10-15ft-lb/in	23 °C 534-801J/m
Hardness Rockwell R (ASTM D785)	116	
Hardness Shore D (ASTM D2240)	80	
Compression Strength (ASTM D695)	8,000 psi	55 MPa
Shear Strength (ASTM D732)	6,500 psi	45 MPa
Water Absorption (24 hrs.)	0.056 %	

\*Independent lab tests at 73°F (22.8°C) in dry conditions unless otherwise noted.

### SHEET SIZES

Lengths	to 96 in	2,438 mm
Widths	to 48 in	1,219 mm
Gauges	from 0.032 to 2 in	from 0.813 to 50.8 mm

Custom Blank sizes, gauges on request

### THERMAL PROPERTIES

Thermal Expansion (ASTM D696)	1.80x10 <sup>-05</sup> °F	3.20 x10 <sup>-05</sup> °C
Heat Deflection Annealed (ASTM D648)	160°F @264 psi	71°C @1.8 MPa
Thermal Conductivity (ASTM C177)	0.74 BTU/HR/FT/F	
Specific Heat (ASTM C351)	0.21 CAL/GM/°C	

### ELECTRICAL PROPERTIES

Dielectric Strength (ASTM D149)	335 Volts/Mil.
Dielectric Constant (ASTM D150)	2.85 @60Hz
Dissipation Factor (ASTM D150)	0.016 @60Hz
Loss Index (ASTM D150)	0.045 @60Hz
Volume Resistivity (ASTM C257)	1.8 x 10 <sup>14</sup> Ohms/cm

### FLAMMABILITY

UL 94	V-0
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\*Values based on minimum thickness of .030 inches (.75 mm), UL File #E54688.

CORROSION  
RESISTANT

4050  
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### DESIGN OPTIONS

- Colors Medium Gray (2103)
- Textures Smooth polished surface (both sides)
- Masking Upon request

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RELIABILITY MEETS INNOVATION

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