

# 600 Series

## Extruded High-Density Polyethylene Sheet

### 600 Natural    630 Black

Property	ASTM* Test Method	Unit	Typical Value
<b>Physical</b>			
Density	D-792	g/cc	0.95
Water Absorption (24 hrs @ 73°F)	D-570	%	0.01
<b>Mechanical</b>			
Tensile Strength	D-638	PSI	3,700
Tensile Modulus	D-638	PSI	140,000
Elongation	D-638	%	550
Izod Impact	D-256	ft. lbs./in. <sup>2</sup>	6.5
Rockwell Hardness	D-785	“R” scale	65
<b>Thermal</b>			
Heat Distortion Temperature at 66 psi	D-648		156
at 264 psi	D-648		131
Vicat Softening Temperature	D-1525		255
Coefficient of Thermal Expansion	D-696		12.4 x 10 <sup>-5</sup>
<b>Electrical</b>			
Volume Resistivity	D-257	ohm-cm	>6.2x10 <sup>16</sup>

\*American Society of Testing Materials

#### Fabricator & Specifier Benefits

- Excellent resistance to chemicals, corrosion, impact and abrasion
- Easily fabricated, welded, and machined; thermoformable
- High-density, slippery surface
- Accurate to dimensional tolerances
- Stress relieved
- Color consistent

#### Application Areas

- Food processing
- Tanks & vessels
- Machined & fabricated parts
- Laboratory equipment
- Chemical processing
- Corrosion-resistant wall coverings
- Wear, skid & deflector plates
- Ducts, hoods, chute liners, & other protective equipment

#### Standards and Specifications

- ASTM D 1248-84 Type III, Class A (Natural), Class C (Black)
- L-P 512C-LP-390, Class H, Type I, Grades 1 & 3
- FDA Regulation Title 21, CFR 177.1520 (Natural Only)
- Federal Specifications: LP390 Type III, Class H, Grade I

#### Standard Availability

**Extruded Sheet Size: 48” x 96”    Tolerances: gauge: +/-5%, width: -0/+1/2”, length: -0/+3/4”**

**Gauges: 600 Natural – Shiny Smooth – 3/32, 1/8, 3/16, 1/4, 3/8, 1/2”**

**630 Black – Shiny Smooth - 1/8, 3/16, 1/4, 3/8, 1/2”**

**Call for custom lengths, colors, masking or special requirements.**

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