



# Densilite

## Physical Properties

Densilite is a polymer sheet designed to replace traditional solid plastic and wood sheets. Densilite is formed from high molecular weight polypropylene co-polymer resin utilizing a patented extrusion moulding process. This makes an exceptionally strong and rigid sheet! Densilite is a unique homogeneous controlled density polymer sheet made to exacting standards. It possesses excellent dielectric and insulating properties due to its structure as a non-polar hydrocarbon polymer. With a water absorption rate very close to 0%, this sheet can withstand high-pressure washing and has excellent chemical resistance. The surface of each sheet is engineered for easy cleaning. Densilite is an ideal panel for the many applications including; chemical handling equipment, wall liners, corrosive atmospheres, high humidity or permanently damp locations, and fabrications which include cabinetry.

### TECHNICAL INFORMATION

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm <sup>3</sup>	0.721
Tensile strength at yield	ASTM D-638	psi	3200
Tensile modulus	ASTM D-638	psi	180,000
Elongation at yield	ASTM D-638	%	n/a
Elongation at break	ASTM D-638	%	n/a
Tensile impact	DIN 53448	ft-lbs/in <sup>2</sup>	n/a
Flexural modulus	ASTM D-790	psi	165,000
Flexural strength	ASTM D-790	psi	4900
Izod impact	ASTM D-4020	ft-lbs/in <sup>2</sup>	no break
IZOD impact notched	ASTM D-2240	ft-lbs/in <sup>2</sup>	no break
Compressive modulus	ASTM D-695	psi	n/a
Compressive deformation	ASTM D-621	% at 1000 psi	n/a
Hardness	ASTM D-2240	Shore D	78
Screw holding strength	ASTM D-1761	Unitless	620
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	5.0 x 10 <sup>-5</sup>
Heat deflection temperature, 66 psi	ASTM D-648	°F	169
Heat deflection temperature, 264 psi	ASTM D-648	°F	n/a
Volume resistivity	ASTM D-257	Ohm-cm	>10 <sup>15</sup>
Surface resistivity	ASTM D-257	Ohm	>10 <sup>15</sup>
Vicat softening temperature	ASTM D-1525	°F	n/a
Max. operating temp.		°F	155
Water absorption 24hrs.	ASTM D-570	%	0.1

\*All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.  
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