TimberLine™ Woodgrain HDPE

Woodgrain HDPE Lumber

Description and Overview

TimberLine™ HDPE sheet features an embossed wood grain finish and unique variegated colors per sheet to deliver the authentic look of wood with none of its weaknesses and all of its strengths. Unlike wood, TimberLine™ sheets do not chip, rot, delaminate, or swell. They have excellent resistance to extreme weather conditions and do not absorb moisture. TimberLine™ HDPE is UV-stabilized to protect against UV light and is suitable for both indoor and outdoor applications.

TimberLine™ HDPE sheet is more resistant to scratches than wood and easier to maintain. It is recyclable, fabricates using existing woodworking setups, and does not require any additional specialized tools.

Applications and Uses

Woodgrain HDPE has already begun to replace wood in many scenarios like indoor and outdoor furniture and cabinetry, boat construction, marina architecture, and playground areas. TimberLine™ is even used in some construction elements.

- Outdoor furniture
- Outdoor cabinetry & storage
- Outdoor kitchens & dry spaces
- Landscape
- Architecture
- Boat construction – cabinetry, hatch covers
- Marina architecture & storage
- RV construction
- Playground systems

TimberLine™ sheets are available in variegated and solid colors.
Full sheet (54" x 96") and cut-to-size options available.
Thicknesses: 0.5", 0.75"

Properties and Specifications

Physical Properties	Units	Nominal Value	ASTM Test Method
Density	g/cc	0.96	D 1505
Tensile Modulus	psi	225,000	D 638
Tensile Strength at Yield	psi	4,000	D 638
Coefficient of Linear Expansion	in/in/°F	6×10^{-5}	D 696
Flexural Modulus	psi	225,000	D 790
Hardness, Shore D		69	D 2240
Screw Pull	lbf	700	D 1761
Low Temperature Brittleness F_{50}	°F	<-130	D 746
Heat Deflection Temperature @ 66psi	°F	205	D 648
Vicat Softening Point	°F	265	D 1525
Flammability	-	HB	UL 94

Properties are typical.
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.
Mech is an abbreviation for mechanically affixed bonding.
Field testing is recommended for any application.