

Unitrex Suntop

The Foamed Polycarbonate Sheet



...Foamed, Low-Density Corrugated Polycarbonate Sheet

Unitrex Suntop:

H & F Manufacturing Corp., a leader in the plastics industry, offers Unitrex Suntop, with its technological breakthrough for roofing and cladding. It is a foamed, low-density corrugated polycarbonate sheet. Unitrex Suntop combines rigidity, impact resistance, and light weight, with a service temperature range beyond any environment's yearly temperature range. With its co-extruded UV protective layer, it will retain these properties for many years. Unitrex Suntop panels have a natural attractive appearance, unique in the industry, and are available in bright metallic colors.



Iron 76 ~~~~~ Asbest 177 ~~~~~
American 4.2" ~~~~~

Panel Information:

Size: 26" x 8', 12' (Other sizes available upon request)

Thickness: 1/16"

Available colors: Light Grey, Red-brick, and Dark Green

Features:

- Impact resistant
- Structural strength
- Protection against UV radiation
- Lightweight
- Rust free
- Enables curved roofing (cold bending)
- Bright long-life colors
- A service temperature range spanning all environmental temperatures
- Excellent thermal insulation
- User-friendly – no asbestos or fibers

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Technical Properties

Typical Physical Properties

PROPERTY	METHOD ^A	CONDITIONS	UNITS	VALUE
Density	(D-1505)		lb./ft ³	50 - 56
Water Absorption	(D-570)	24 hr. @ 73°F	%	1.23
Heat Deflection Temperature	(D-648)	Load: 264 psi	°F	255
Service Temperature Range			°F	-20 to +250
Thermal Conductivity	(C-177)		Btu-in./hr-ft ² °F	0.76
Tensile Strength at Yield	(D-638)	0.4 in./min	psi	3,600 - 4,350
Tensile Strength at Break	(D-638)	0.4 in./min	psi	3,600 - 4,350
Elongation at Yield	(D-638)	0.4 in./min	%	3 - 4
Modulus of Elasticity	(D-638)	0.4 in./min	psi	174,000 - 218,000
Flexural Strength	(D-790)	0.4 in./min	psi	7,250 - 8,700
Flexural Modulus	(D-790)	0.4 in./min	psi	232,000 - 261,000
Fire Resistance	(D-635-91)			CC1
Falling Bag Test	(AS/NZS4040.4:1996 using 25 kg from 2.5m)			Pass

^A ASTM except where noted otherwise



Thermal Insulation:

Unitrex Suntop's foam structure offers better insulation than other traditional roofing materials. (.76 Conductivity)

Chemical Resistance:

Unitrex Suntop sheets are impervious to attack by a wide variety of chemical substances, however, certain chemicals are not compatible with Polycarbonate. Please contact your H & F sales representative prior to ordering.

Mechanical Properties:

The main advantage of Unitrex Suntop over other corrugated sheets is a very high deflection resistance combined with extremely low weight and impact resistance. Because Unitrex Suntop sheets are impact resistant, they will not shatter even when penetrated.

Climatic Performance:

Unitrex Suntop sheets perform flawlessly under harsh, extreme climatic conditions. The temperature range is: -40°F - 212°F.