

THE WORLD'S BEST THERMAL, ACOUSTIC, PRESERVATION WINDOW INSERTS

THERMAL PERFORMANCE TESTS ATI-2305, ATI-2309

	PRIME WINDOW	PRIME WINDOWW/FLEX-TITE
U-VALUE	1.15 BTU/HR FT 2/FT	0.44 BTU/HR FT 2/FT
R-VALUE	.86	2.27
CRF	5.0	68.0

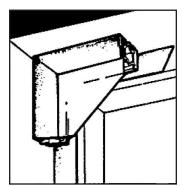
REDUCTION OF HEATTRANSFER...62%

STRUCTURAL PERFORMANCE TESTS PERFORMED W/OUT PRIME **TEST PRESSURE MEASURED RESULT** ASTM E-283 0.56 PSF 0.03 CFM/FT AIR INFILTRATION 1.56 PSF 0.10 CFM/FT ASTM E-330 UNIFORM LOAD 15 PSF NO DAMAGE

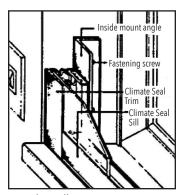
THE CLIMATE SEAL MAGNETIC INTERIOR **INSULATING WINDOW SYSTEM** is designed to reduce heat transfer and virtually eliminate infiltration through and around windows. The interior installation of the window is more convenient and less expensive than other methods of installing insulating windows.

DUAL DUROMETER VINYL EXTRUSIONS

Climate Seal trim, available in white, tan and brown, is a dual durometer polyvinyl chloride extrusion.



Flush-mount installation



In-jamb installation

PROPERTY	TESTING METHOD	UNIT	VALUE
MECHANICAL			
Specific Gravity	ASTM D-792		1.38
Tensile Strength	ASTM D-638	PSI	6200
Tensile Modulus	ASTM D-638	PSI	350,000
Flexural Strength	ASTM D-790	PSI	11,200
Impact Strength	ASTM D-256	ft.lb/in notch	16
Rockwell Hardness	ASTM D-785		112
THERMAL			
Deflection Temperature Coefficient of Linear	ASTM D-648	degree F	160
Thermal Expansion	ASTM-D-696	in/in/degree F	3.7 x 10 -5
Flammability	ASTM-D-638		self-ext.
UL Rating	UL Labs		UL-94 V-0
CHEMICAL RESISTANCE			
Effect of weak acids			none
Effect of strong acids			none to sight
Effect of weak alkalies			none
Effect of strong alkalies			none
Effect of organic solvents	Resists alcohols, aliphatic hydro	carbons, oil; soluble or swell	ls in
Ů	keystones and esters; swells in		
Ultraviolet Resistance			good
MAGNET			
Dimension			.180" x .670"
Specific Gravity	ASTM D-792-66		3.73
Hardness Durometer D	ASTM D-2240-81		63
Tensile Strength at 73° F	ASTM D-412-80	PSI	919
Deflection Temperature	ASTM D-648-72	degrees F	120
Average Shrinkback	At Room Temp.	in/ft	1/64
,	110 degrees F	in/ft	1/32
	158 degrees F	in/ft	1/16
STEEL TAPE LAMINATED W	ITH FOAM ADHESIVE, PAINTEI	O STEEL	
Color	•	White, Tan, Brown	
Width			.75" +/015
Thickness			.014" +/004

acrylic based pressure sensitive adhesive.

1/32" white, closed-cell PVC foam, coated on both sides with a high perfromance,

FOAM TAPE



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CONTINUOUSLY PROCESSED, HIGH MOLECULAR WEIGHT ACRYLIC SHEET

- American National Safety Glazing Standard ANSI Z97.1
- American National Safety Institute Safety Code for Safety Glazing Motor Vehicles on Land Highways ANSI Z26.1
- Federal Motor Vehicle Safety Standard No. 205

- International Conference of Building Officials (ICBO)
- Uniform Building Code (UBC)
- UL Classifications; 94HB, HBE162, 746C, UV Light

Properties	ASTM Test Method	Units	Values
Specify Gravity	D-792		1.19
Optical Refractive Index	D-542		1.46
Light Transmittance (sample thickness .100) Total Haze	D-1003	% %	92 2
Sound Tranmission (.125 thickness)	E 90-70 E 413	db	27
Water Absorption	D-570	% By Weight	.40
Shrinkage	D-702	% Shrinkage	.42 .33

Mechanical			
Specify Strength Maximum Tensile Elongation Maximum Modulus of Elasticity	D-638	psi % psi	10,900 5.1 431,000
Flexural Strength Maximum	D-790	psi	14,600
Izod Molded Notch 1/2" x 2-1/2" x 1/4" bar at 73°F Izod Milled Notch 1/2" x 2-1/2" x 1/4" bar at 73°F	D-256-56	Ft lbs/inch of notch Ft lbs/inch of notch	.4
Tensile Impact Strength ¹	D-1822	Ft lb/in ₂	20
Abrasion Resistance 0 cycles 10 cycles 50 cycles 200 cycles Rockwell Hardness .250 sample	D-1044 D-785	Haze, % Haze, % Haze, % Haze, %	2 15 50 30 M-93

- 1. Tensile Impact Strength: Long form samples, Type "L" cut from .125 discs parallel to flow.
- 2. Abrasion Resistance: Taper Abraser, CS-10F Wheels 1,000 Gram Load.

Thermal			
Maximum Recommended Continuous Service Temperature		°F	170-190
Softening Temperature		°F	210-220
Melting Temperture		°F	300-315
Deflection Temperature Load, Unannealed 3.6°F/minute, 264 psi 3.6°F/minute, 66 psi	D-648	°F °F	181 200
Coefficient of Thermal Expansion - 40°F -20°F 0°F 20°F 40°F 60°F 80°F	D-696	ins/in°F x 10-5	2.7 2.9 3.1 3.2 3.4 3.6 3.9 4.3
Thermal Conductivity Flammabilty (Burning Rate)	C-177 D-635	BTU (HR)(Ft²)(°F)/in ins/minute (.125" thickness)	.9 1.24
Smoke Density Rating Self-Ignition Temp	D-2843-77 D-1929	% °F	2.1 850°F
Flame Spread Index Smoke Value	E-84-86		145 310

CHEMICAL			
Resistance to Stress – Critical Crazing Stress to:	ARTC modification of MIL-P-6997		
Isopropyl Alcohol		psi	900
Lacquer Thinner		psi	500
Toluene		psi	1,300
Solvesso 100		psi	1,600

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of these products are beyond our control. We recommended that the prospective user determine the suitability of these materials and suggestions before adopting them on a commercial scale.

^{3.} Sheet Thickness & Tolerance: Plaskolite acrylic is produced to tolerances of \pm 1/16" length and width on sizes 32" x 42" and smaller. Sheet sizes greater than 32" x 42"up to 30" x 60" are produced to length and width tolerances of \pm 3/32". All sheet sizes greater than 30" x 60" are produced to length and width tolerances of \pm 1/8". All sheet thicknesses are within industry standards of \pm 10%.