



POLYMER INDUSTRIES

GEARED TOWARDS EXCELLENCE

TPS CLEARGUARD®



TPS ClearGuard Hurricane Panels- Polycarbonate



Easy to Install



Excellent Strength and Visibility

The **TPS ClearGuard®** Hurricane Panels are made with super tough Polycarbonate resin (a type of plastic) that will not rust, shatter, or corrode. Our **TPS ClearGuard®** Hurricane Panels allow natural light to filter in during storm related power outages. With up to 85% natural light transmission, every homeowner should be sure to have a clear panel system that allows light in and visibility out. Unlike unsightly metal panels ClearGuard® Hurricane Panels, are virtually invisible when installed.

The lightweight **TPS ClearGuard®** Hurricane Panels provide a safe and easy system with no sharp edges. The narrow widths promote easier homeowner handling and installation. Easy to install...Easy to store... making them perfect for compact stacking. Fits perfectly with standard industry Tracks and Hardware.



TPS
CLEARGUARD®

	Test Method	Units	TPS CLEARGUARD
Mechanical			
Specific Gravity	ASTM-D792	---	1.20
Tensile Strength	ASTM-D638	psi	9,500
Tensile Elongation	ASTM-D638	%	110
Tensile Modulus of Elasticity	ASTM-D638	psi	330,000
Flexural Strength	ASTM-D790	psi	13,500
Flexural Modulus of Elasticity	ASTM-D790	psi	340,000
Compressive Strength	ASTM-D695	psi	12,500
Izod Notched Impact	ASTM-D256	ft.-lb./in.	17.0
Thermal			
Coef. of Linear Thermal Expansion	ASTM-D696	in./in./deg F	3.8×10^{-5}
Continuous Use Temp.	IUL 746	°F	265
Heat Deflection Temp. @ 264 psi	ASTM-D648	°F	270
Impact/Wind Load Testing			
Static Wind Load	ASTM-E330	psf	142
Impact/Cyclic Wind Load	ASTM-E1886	---	pass
Impact/Cyclic Wind Load	ASTM-E1996	---	pass
Large Missile Impact	TAS 201	---	pass
Uniform Static Air Pressure	TAS 202	---	pass
Cyclic Wind Load	TAS 203	cycles	1,342/pass
Miscellaneous			
Flammability	UL-94	---	HB @ .093"
Color	---	---	Transparent
Light Transmittance @ .093"	ASTM-D1003	%	85
Weathering			
QUV Weathering @1500 Hrs.	ASTM-G26	ΔYI	< 8
Tensile Strength @ 4500 Hrs. QUV	ASTM-D638	psi	9,386
Miami-Dade BCCO App. Exterior Plastic	C/L #0445	---	pass

CLEARGUARD® is a registered trademark of Polymer Industries

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POLYMER INDUSTRIES

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