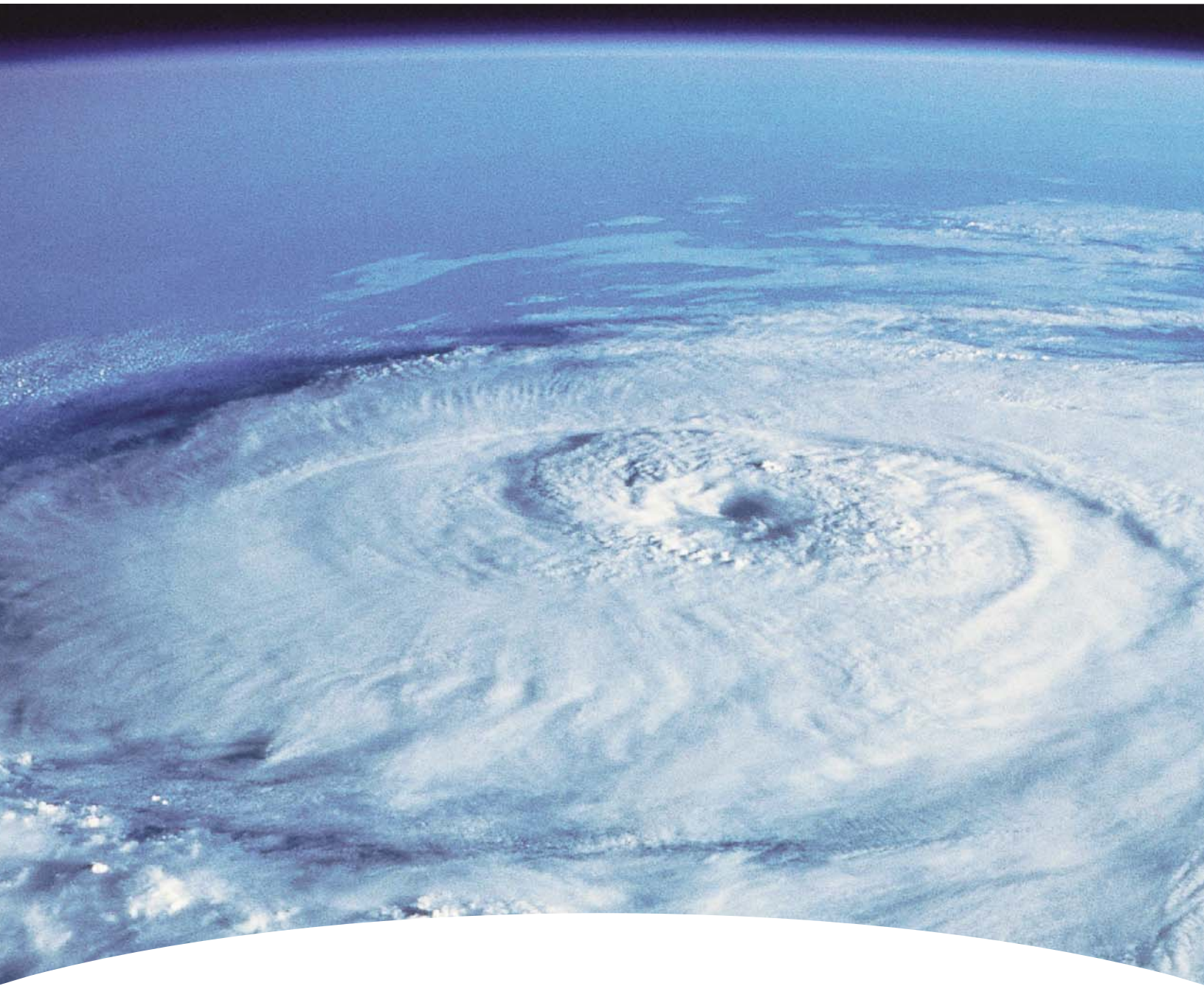


Honeywell Spectra® fiber



**Storm curtains with Spectra fiber,
part of Honeywell's hurricane
protection solutions**

Honeywell

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Overview

High strength Honeywell Spectra® fiber, commonly used in bullet-resistant armor to protect military and police personnel, now serves as a key component in novel hurricane-resistant protective panels for windows and doors. The fiber allows the panels to resist high winds and resulting debris, while still only weighing two and a half ounces per square foot. These panels are available to home owners through North Carolina-based John Boyle & Co. and the end product is referred to as “Storm-A-Rest™.” Storm-A-Rest is approved under Florida building code for Wind Zone 4, which includes the area within one mile of the coast throughout the state. It meets or

exceeds requirements for winds in excess of 155 mph and for large wind-borne projectile impact. It is also engineered to stop wind-driven rain.

Count on our strength

Honeywell Spectra fiber is made from ultra-high molecular weight polyethylene using a patented gel-spinning process. The fiber exhibits high resistance to chemicals, water, and ultraviolet light. It has excellent flex fatigue and internal fiber-friction characteristics, leading to longer life. It also has up to 60 percent greater specific strength than competitive fiber materials. Storm curtains made with Spectra fiber are extremely lightweight, yet are 15 times stronger than steel, pound for pound.



COMPARATIVE FIBERS

Material	Density g/cm ³	Tenacity g/d	Elongation %	Modulus g/d
Spectra® S-1000	0.97	34-38	2.9-3.5	1135-1320
Spectra® S-900	0.97	25.5-30.5	3.6-3.9	850-920
Aramid	1.44	18-30	3.3-5.6	450-1110
LCP	1.40	23-26	3.3	525+
Steel	7.80	3	1.3	300
S-Glass	2.50	21	5.7	400
Polyester	1.38	7-10	10-15	80-120
Nylon	1.14	6-10	15-28	<80

Dependability and Ease of Use

In addition to strength, the panels offer a number of other benefits for homeowners. They are non-corrosive, UV-resistant and approximately 76% translucent, which can be critical during power outages associated with severe storms. Initial installation can be achieved by fastening to a variety of surfaces, including wood, brick and concrete. Once installed, homeowners can easily mount the panels themselves using standard fasteners without special tools. For a decorative look, the panels are available in more than 350 Sunbrella®-brand accent patterns.

Honeywell Specialty Materials

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