

Singapore National Stadium's Lightweight Retractable Roof Fabricated with Fluon®ETFE Film

AGC's Fluon® ETFE fluoropolymer film was recently used for the retractable roof of the newly constructed 55,000-capacity National Stadium in Singapore. The National Stadium is a state-of-art, multi-purpose facility located within the Singapore Sports Hub, the city's largest sports and entertainment complex. The 20,000 square meters movable rooftop is covered with 0.15mm to 0.25mm-thick Fluon ETFE fluoropolymer film, which was selected because of its flexibility and lightweight. Using architectural film in place of glass or other transparent building materials significantly reduces the roof's weight while allowing a considerable amount of light to pass through. Nighttime illumination effects amplify the stadium's visual experience for spectators and passers by.



Fluon ETFE Film is made of a high-performance thermoplastic fluoropolymer, and features excellent transparency, non-stick and insulation properties, and resistance to heat, chemicals and weather. ETFE film is used for electronics, solar cells, wallpaper and greenhouses, but has recently been attracting global attention as a high-performance building material. AGC's Fluon ETFE film was recently used in Russia's Fisht Stadium in Sochi for the Winter Games, Munich's Allianz Arena and Brazil's Itaipava Arena Pernambuco where the 2014 FIFA World Cup Brazil™ matches are being held.

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About the Singapore Sports Hub

Singapore's premier sports hub, located on a 35-hectare site in Kallang, consists of a unique cluster development of integrated world-class sports facilities. The facility is expected play a critical role in accelerating the development of sports industry in Singapore.

About AGC Chemicals Americas Inc.

AGC Chemicals Americas Inc. is a wholly owned subsidiary of Asahi Glass Company Ltd., a \$13 billion multinational corporation and one of the world's largest manufacturers of glass, electronic displays and chemical products. The company was formed in 2004 through the



merging of sister companies Asahi Glass Fluoropolymers USA and AGA Chemicals. Headquartered in Exton, Pa., AGC Chemicals Americas maintains manufacturing operations in nearby Thorndale, Pa., and warehouses located throughout North America. www.agcchem.com.

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