CASE STUDY: Education center prepares for the unexpected



Building

Prem Center International Education

Location Chaingmai, Thailand

Window Film SCL SR PS7 (Clear)

Type Safety and Security Film

SITUATION

Prem Center International Education is situated in Chaingmai province, north of the capital city of Bangkok. With the increasing frequency of terrorist bombings taking place in Thailand, the owner's of the Prem Center, Mae Lok Co. Ltd., wanted to offer a safe environment to the students and lecturers studying and working at the education center.



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SOLUTION

The exclusive LLumar® distributor in Thailand proposed installing LLumar SCLSRPS7 (175 microns) safety and security film to all of the exterior glazing in the center. LLumar safety and security film enhances protection because it helps hold shattered glass together in the event of a bomb blast or explosion. Whether by accident or act of terrorist, explosions can be devastating. LLumar helps protect against severe injuries caused by flying glass debris.

RESULT

Education management commented, "be vigilant and not complacent. Always prepare for the unexpected." LLumar will help to give management, as well as those studying and working at the center an added sense of security.

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SCL SR PS7	0.00		Clear	Sir	nale	31.050	3:	2.000	230		211	>10	00%	>2720(>6		145
Physical Properties	Film Thickness (Inches)		Appearance	Appearance Film Structure		Tensile Strength (constructed)	Tensile Strength (average as reported)		Break Strength (peak load)		Break Strength (average load)	Elongation at Break		Peel Strength		Puncture Strength
SCL SR PS7 (Clear)	82	8	10	89	9	9	1.06	0.98	94	0.90	0.85	15	1.05	1	-2	1
Clear Series	Clear safety films can be applied over tinted glass to improve aesthetics, solar performance and glare. These thicker films meet the most stringent standards for burglary resistance, blast mitigation, wind-borne debris, and basic safety glazing.															
Clear Glass	83	8	9	90	8	8	1.03	1.00	29	0.84	0.86	14	1.05	-	-	-
Performance Data	% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorptance	% Visible Light Transmittance	% Visible Reflecta (exterior)	% Visible Reflecta (interior)	Winter U-value	Shading Coefficient	% Ultraviolet Ray Protection (wavele 280-380nm)	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Rejected	Light-to-Solar Hea Ratio (LSG)	% Summer Solar I Gain Reduction	% Winter Heat Loss Reduction	% Glare Reduction

EASTMAN

LLumar.com The solar performance data reported for LLumar architectural window films was captured using the National Fenestration Rating Council's (NFRC) standard guidelines for window film solar performance measurement as measured on single pane, 1/8 inch (3 mm), clear glass. Reported values are taken from representative product samples and are subject to normal manufacturing variances. Actual performance will vary based on a number of factors, including glass type and properties. Films do not eliminate fading - they reduce it. UV rays and heat are contributing factors to fading, but other factors exist. For further information, see LLumar.com/download-library. © 2016 Eastman Chemical Company. LLumar® and the LLumar® logo are trademarks of Eastman Chemical Company or one of its wholly owned subsidiaries. As used herein, ® denotes registered trademark status in the U.S. only. (06/16) L2151