



TECHNICAL DATA SHEET

STABRITE® 6100 EL R151

Red-Orange Fluorescent Vinyl Film - Aggressive

Stabrite® is a unique **extended** life fluorescent vinyl film for use in exterior applications where high visibility, outstanding conspicuity and long-term durability are required. 6100 EL R151 has an aggressive optically clear adhesive, UV resistant over laminate for prolonged exposure to weather.

CERTIFICATIONS

ASAE S276.7, ASAE S279.17, ISO FM65315

PRODUCT ATTRIBUTES

- Vivid red-orange fluorescent color immediately draws the attention of the eye and mind
- Provides conspicuity in low light conditions such as twilight, dawn, inclement weather and dimly lit indoor environments
- Reflects visible light present and absorbs light from low energy wavelengths, converting it to visible wavelengths
- Emits up to 200% of the incident visible light for a given color
- Printable via solvent inkjet, solvent screen, UV flexo, UV inkjet and UV screen

APPLICATION METHOD

Ensure all application surfaces are clean and dry prior to bonding. Wipe the surface with a dry lint free cloth to eliminate dust and debris. An alcohol dampened clean cloth will remove oils and dirt to allow better adhesive bonding to the surface. If an alcohol wipe is used, allow the alcohol to evaporate prior to bonding. Apply the film using a squeegee with hand pressure and avoid trapping air bubbles behind the film. Trapped air pockets can cause surface blemishes by not allowing full contact of the adhesive to the surface. Elevated pressures or temperatures are not required for bonding.

CONSTRUCTION	
FACE FILM	7 mil rigid vinyl film
ADHESIVE	Pressure-sensitive with permanent bond
RELEASE LINER	Bleached kraft paper with silicone release

Product performance will vary in each application and is dependent upon composite construction. Arlon Innovations does not guarantee the replication of this data by third parties. None of the data or statements contained herein is intended to warrant the performance of this product. Data is representative and not intended as a manufacturing specification.



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COLOR

CONSTRUCTION RED-ORANGE	BEFORE EXPOSURE
DOMINANT WAVELENGTH (nm)	602 - 610
PURITY %	95 minimum
LUMINANCE %	38 minimum
PEAK REFLECTANCE (observable at wavelength nearest dominant)	180 minimum

REPRESENTATIVE PHYSICAL PROPERTIES

PROPERTY	VALUE
OUTDOOR DURABILITY	5 years, when properly applied
MINIMUM SURFACE APPLICATION TEMPERATURE	50°F
APPLICATION SURFACE	Flat, simple curves
SERVICE TEMPERATURE RANGE	-40°F to 176°F
FILM CALIPER	7 mil plus adhesive and liner
CHEMICAL RESISTANCE	Most mild acids, alkalis, and salt solutions
PEEL ADHESION - 24 HR (PSTC-1, stainless steel)	275 oz/in
VINYL SHRINKAGE (350°F, 10 minutes)	< 40 mil
SHELF LIFE	2 years when stored at 72°F and 50% RH

Bond strength after 15 minutes dwell time is permanent and increases slightly after 24 hours.

Bond strength may continue to increase for up to one week after initial application.

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