

*Specialists in
Safety
Identification
Products*

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Technical Specifications

REFLECTIVE TAPE

Harris RF/RS/RA/RC-Series

I. SPECIFICATIONS:

Reflective tapes are enclosed lens retroreflective film which meet or exceed the applicable requirements of Federal Specifications L-S 300C (Reflective 1) and FP-85 (Type II). Primarily designed for use on high quality signage, reflective tape offers exceptional field performance combined with engineer grade reflectivity.

II. CONSTRUCTION:

Face Film: 4.5 Mils (114 pm) Urethane Engineer Grade
Retroreflective film

Adhesive: MR-510 permanent, clear pressure-sensitive

Release Linter: 94# Imprinted StaFlat®

III. PHYSICAL PROPERTIES:

The following information on physical and chemical characteristics is based upon tests believed to be reliable. The values are intended only as a source of information. They are given without guaranty and do not constitute a warranty. The purchaser should independently determine prior to use, the suitability of this material for his/her specific purpose. (Data represents average and is not intended for use as a specification.)

Outdoor durability: 7 years when properly processed and applied
(vertical exposure, unprinted film)

**Minimum Surface/
Ambient Air Application
Temperature:** +40°F (5°C) when applied with a squeeze roll
applicator. +50°F (10°C) when used for
transportation (fleet) markings.

Application Surface: Flat (not recommended for unpainted stainless
steel applications).

**Service Temperature
Range:** -40°F to +180°F (-40°C to 82°C) (Reasonable
range of temperatures which would be expected
under normal environmental time and
temperature conditions)

**Typical Film Caliper
(w/adhesive):** 5.5 Mils (140 pm)

Optical Properties: Reflective Intensity: Meets or exceeds L-S 300C,
Table II Reflective I. Meets or exceeds FP-85 Type
II. Meets or exceeds ASTM D-4956-89 Type I.

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Typical Adhesion Values:

	90° Peel		180° Peel	
	<u>15 min.</u>	<u>24 hrs.</u>	<u>15 min.</u>	<u>24 hrs.</u>
Substrate	2.1 lb/in	3.1 lb/in.	Tore	Tore
Anodized Aluminum	3.1 lb/in.	3.9 lb/in	Tore	Tore
OEM Automotive Paint	(543 N/m)	(683 N/m)		

Note: Tested per ASTM 1000. Always pre-test your specific substrate prior to actual applications.

Shelf Life: One year when stored at temperatures under 73°F (23°C) and 50+5% R.H.

Dimensional: Less than 0.03 in. (0.8mm) shrinkage. (1000 hours Atlas Twin Arch

Stability: Weatherometer, EH)

<u>Ink Supplier</u>	<u>Ink Series</u>	<u>Process</u>	<u>Ink Systems</u>	<u>Information</u>
Avery	FasTrans™	Screen	Solvent Based	Both FasTrans and REX inks cure by oxidation. Allow 24 hours minimum cure time when rack drying (70°F min. [22°C]).
Nazadar	REX	Screen	Solvent Based	Always provide an adequate dry air flow, (the use of high output fans is recommended).

Note: Transparent traffic colors and opaque black only.

Recommended curing process: When batch oven curing a temperature of 120°F to 150°F (49°C to 66°C) (Do not exceed 150°F) is recommended, for a period of 60-120 minutes.

Standard Printing Methods: Typical Converting Methods:
Screen Steel Rule Die-Cutting
Guillotine Cutting
Thermal Die-Cutting

** 300°F to 325°F (149°C to 163°C) for 1-2 seconds.
Cutting temperatures and dwell time will vary with differences in die configuration and individual machines.
Always test prior to production.

Additional Information:

Standard Colors: See swatchcard for appropriate color selection.

Application Information: Wet method of application not recommended for reflective films. Use of wet method of application invalidates standard warranty on this product.