



WEATHERABLE CLEAR
POLYESTER PROTEK®
HARDCOAT



Tekra Hardcoats are a complete line of functional hardcoats designed for graphic arts applications. Features of our hardcoat include:

- Excellent abrasion and scratch resistance
- Outstanding chemical resistance to common industrial and household materials
- Excellent weathering characteristics

ProTek Weatherable Hardcoat on Polyester will be stocked in a web width of 49" in 7 mil thickness. 5 and 10 mil thicknesses are possible on a custom order basis.

TYPICAL VALUES ‡

Physical			Test Method	Value	Unit
Clarity		TM 10.76	>99	%	
Haze		TM 10.76	<1	%	
Light Transmission		TM 10.76	88	%	
Gloss Backpainted Flat Black		TM 10.15			
60 Degrees			92	GU	
Gloss Clear over White Matte		TM 10.15			
60 Degrees			164	GU	
UV Spectrum Transmission					
300-370 nm	Light Transmitted		<1	%	
285-380 nm	Light Transmitted		<5	%	
Xenon Arc Testing					
1000 Hours			0.5	Å YI	
2000 Hours			1.1	Å YI	
Mechanical			Test Method	Value	Unit
Abrasion Resistance		TM 10.85	10		
Pencil Hardness		TM 10.59	2H		
Thermal			Test Method	Value	Unit
Shrinkage		30 min at 120C			
	MD		0.5	%	
	TD		0.4	%	

‡ These are typical values only and should not be confused with specification values. Specifications, tolerances and minimum values are finalized during the developmental process and are thus unavailable.



CHEMICAL RESISTANCE

Chemical	One hour surface contact at 23C	24 hours surface contact at 23C
Acetone	Pass	Pass
Concentrated HCl	Pass	Fail
MEK	Pass	Pass
Toluene	Pass	Pass
Methylene Chloride	Pass	Pass
Isopropyl Alcohol	Pass	Pass
Cyclohexanone	Pass	Pass
Ethyl Acetate	Pass	Pass
Xylene	Pass	Pass
Brake Fluid	Pass	Pass
Butyl Cellosolve	Pass	Pass
Hexane	Pass	Pass
	24 hours surface contact at 23C	24 hours surface contact at 50C
Coffee	Pass	Pass
Fantastik ¹	Pass	Pass
Formula 409 ²	Pass	Pass
Windex w/Ammonia D ¹	Pass	Pass
Tide ³	Pass	Pass
Downy ³	Pass	Pass
20% Bleach	Pass	Pass
Mustard	Pass	Slight Stain
Mr. Clean ³	Pass	Pass
Ketchup	Pass	Pass
Tea	Pass	Pass
Tomato Juice	Pass	Pass
Lemon Juice	Pass	Pass
Grape Juice	Pass	Pass
Vinegar	Pass	Pass
Milk	Pass	Pass
Top Job ³	Pass	Pass
Armor All †	Pass	Pass
Ethanol	Pass	Pass
Salt Water	Pass	Pass
Sunscreen	Pass	Pass

¹ Registered Trademark of SC Johnson
² Registered Trademark of The Clorox Company
³ Registered Trademark of Proctor and Gamble
† Registered Trademark of ArmorAll Products Corp.

MASKING AND INTERLEAVING

Weatherable PET can be configured with interleaving on sheets, mask on the hardcoat surface, mask on the uncoated surface, or with no masking. Stock rolls will have no masking.

CUSTOMIZABILITY

Weatherable PET is available in roll form, 49" wide by 2700 feet long on 7 mil PET.

PROCESSABILITY

Please observe a maximum processing temperature of 165F using various curing methods to ensure satisfactory processing outcomes. In addition, Tekra has made a good faith effort to validate the suitability of this product with common processing methods including screen printing, laser cutting, die cutting and embossing. However, because of the variability between different types of equipment, methods and processing conditions Tekra recommends that you work with your Tekra representative, your ink representative and your machine manufacturer to determine the substrates, inks, machinery and settings that work best in your particular situation.

The application suggestions, specifications and other data described here are based on experience that is believed by Tekra Corporation to be reliable. Because of the characteristics of these products, you should, before using these products in production, perform your own tests to determine to your satisfaction whether these products are acceptable and suitable for your particular purposes under your operation conditions.

Any order for these products will be subject to Tekra's terms and conditions of sale.



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