



ProTek® Fine Texture Hardcoated Polyester

ProTek films from Tekra Corporation incorporate the latest advances in coating technologies to offer the most advanced hardcoats in the industry.

Features of ProTek Fine Texture Hardcoated Polyester include:

- Enhanced scratch resistance
- Excellent abrasion resistance
- Outstanding for embossing and die cutting
- Excellent chemical resistance to common household cleaners and industrial solvents
- First and second surface printability with solvent and UV inks, including clearing inks

ProTek Fine Texture Hardcoated Polyester is available in web width of 49" and in 5, 7, and 10 mil thicknesses. Custom roll widths and sheet sizes are available.

TYPICAL VALUES ‡

Physical	Test Method	Value	Unit
Specific Gravity	ASTM D792	1.39	g/cm ³
Area Factor (Yield Factor)		0.05	Lb/in ³
Clarity	TM 10.76	16	%
Haze	TM 10.76	69	%
Light Transmission	TM 10.76	90	%
Gloss Back painted Flat Black 60 Degrees	TM 10.15	7	GU
Gloss Clear over White Matte 60 Degrees	TM 10.15	17	GU
Mechanical	Test Method	Value	Unit
Abrasion Resistance	TM 10.13	Δ8	
Pencil Hardness	TM 10.97	H-2H	
Tensile Strength at	ASTM D882A		
Yield, MD		13,000	psi
Yield, TD		13,000	
Break, MD		24,000	psi
Break, TD		27,000	
Tear Strength at Initiation	ASTM D1004	1000	g/mil
Tear Strength at Propagation	ASTM D1922	16	g/mil
Thermal	Test Method	Value	Unit
Glass Transition		70	C
Shrinkage	5 min at 190C		
MD		2.5	%
TD		1.5	%

‡ These are typical values only and should not be confused with specification values. Specifications, tolerances, and minimum values are available on request from your Tekra representative or from Tekra Corporation.

As Manufactured Chemical Resistance

Chemical	
Four Hour Continuous Surface Contact at 23C (73F)	
Acetone	Pass
Concentrated HCl	Pass
MEK	Pass
Toluene	Pass
Methylene Chloride	Pass
Isopropyl Alcohol	Pass
Cyclohexanone	Pass
Ethyl Acetate	Pass
Xylene	Pass
Brake Fluid	Pass
Butyl Cellosolve	Pass
Hexane	Pass
24 hour surface contact at 50C (122F)	
Coffee	Pass
Fantastik ¹	Pass
Formula 409 ²	Pass
Windex w/Ammonia D ¹	Pass
Tide ³	Pass
Downy ³	Pass
20% Bleach	Pass
Mustard	Slight Stain
Mr. Clean ³	Pass
Ketchup	Pass
Tea	Slight Stain
Tomato Juice	Pass
Lemon Juice	Pass
Grape Juice	Pass
Vinegar	Pass
Milk	Haze
Top Job ³	Pass
Armor All †	Pass
Ethanol	Pass
Salt Water	Pass
Sunscreen	Pass
Coppertone* SPF 70+	
- Spray	Fail
- Lotion	Pass
Deep Woods OFF ¹	
- 25% DEET	Pass

¹Registered Trademark of SC Johnson
²Registered Trademark of the Clorox Company
³Registered Trademark of Proctor and Gamble
†Registered Trademark of ArmorAll Products Corp
*Registered trademark of Schering Plough

Masking and Interleaving

ProTek Fine Matte Texture PET can be configured with mask on the second surface, or with interleaving, or with no mask or no interleaving. If no protective mask or interleaving is selected, Tekra will not warranty against spot abrasions or other damage to the uncoated surface in transit.

Processability

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, ink, 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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