

AUTOTEX PC

Textured Hardcoated Polycarbonate Film

PRODUCT DESCRIPTION

Autotex PC is designed specifically for touchpad applications. Coated on high quality thick polycarbonate film, the hardcoat is finished with a consistently smooth texture which is ideal for touchpads. The surface is abrasion and chemical resistant to give excellent longevity in use.



READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT RANGE

Product	Base	Gauge		
		280 µm	400 µm	500 µm
Autotex PC - Fine texture on front surface	Fine	-	PC F400 L	PC F500 L
Autotex PC - Touchpad texture on front surface	Touch	PC T280 M	PC T400 L	PC T500 L

TYPICAL PROPERTIES

Property	Typical Value	Test Method
Haze ¹ F400 & F500 T280 T400 & T500	58% ± 5% 90% ± 5% 60% ± 5%	ASTM D1003
Total luminous transmission ¹	92% ± 2%	ASTM D1003
Yellowness index ³	≤ 1	ASTM E313
Gloss level (60°) ¹	6 ± 1 GU	ASTM D2457 (modified to Test method 022)
Rotary Taber abrasion	Does not penetrate hard coat	Test method 103 (CS10 wheels) ¹
RCA abrasion resistance ¹	> 300 cycles	ASTM F2357
Hardcoat adhesion ³	Pass	Test method 080
Breakdown voltage ² 280 µm 400 & 500 µm	> 30 kV / mm ≥ 60 kV / mm	ASTM D149
Tensile strength at break ²	≥ 60 N / mm ²	ASTM D882
Texture profile ¹ Ra F T RSm F T	1.58 ± 0.33 µm 0.87 ± 0.15 µm 119 ± 35 µm 62 ± 14 µm	Test method 066
Thickness all grades ¹	Nominal ± 10%	Test method 096
Relative density ²	1.2 g / cm ³	ASTM D1505
Chemical resistance	Good hardcoat resistance to many common industrial solvents and household chemicals - please see Autotex PC Solvent Resistance Data sheets	

Note: All evaluation results are obtained from lab produced samples at MacDermid Alpha Electronics Solutions. They are for general guidance only and do not represent the final product's properties.

¹ For details of test method, please contact MacDermid Alpha Electronics Solutions

² Data derived from base film manufacturer's literature. The coating slightly enhances most properties

³ Specification value

LAMINATE

Where present, the protective laminate on the print surface should be left in place until the first ink print pass.

SHELF LIFE & STORAGE CONDITIONS

The recommended shelf life is 36 months from the date of manufacture. MacDermid Alpha Electronics Solutions guarantees a minimum remaining shelf life of 8 weeks at the time of despatch.

The recommended shelf life represents the maximum processing lifetime of the product from the date of manufacture when stored correctly and in unopened packaging.

The following storage conditions are recommended:

Storage Conditions	
Temperature	15 to 25 °C
Relative Humidity	50 to 65%
Packaging	Store in original protective packaging Once the packaging has been opened, the processing lifetime can be compromised due to air ingress, contamination or UV light
Moisture	Store away from water sources
Chemicals	Keep away from aggressive solvents
Stacking	For material $\leq 250 \mu\text{m}$ thick, 100 sheet packs should be stacked no more than 10 packs high

IMDS ID-No

By arrangement with our regulatory affairs team.

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use.

Safety Data Sheets are available.

WASTE TREATMENT

Prior to using any recommendations or suggestions for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.

CONTACT INFORMATION

To confirm this document is the most recent version, please contact

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US +1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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