

AUTOFLEX PC

Product Data Sheet

Hardcoated Polycarbonate Film



DESCRIPTION

Autoflex PC is a high quality, hardcoated polycarbonate, consisting of a base polycarbonate film coated with a chemically bonded, UV cured hard surface coating in a gloss or antiglare finish.

Autoflex PC was developed for applications where the rigidity and clarity of thick gauge polycarbonate is required along with an abrasion and chemically resistant surface.

Autoflex PC is available in sheets and rolls.



PRODUCT RANGE

Product	Finish	Gauge			
		180µm	250µm	380µm	480µm
Autoflex PC	Gloss	PC G180L	PC G250L	PC G380 2L	PC G480L PC G480 2L
	Antiglare	PC A180L	PC A250L	PC A380L	PC A480L PC A480 2L

PRIMER

Autoflex PC does not require an ink adhesion primer on the second surface. Please ensure that inks are selected that are compatible with polycarbonate

LAMINATE

Polycarbonate films with high gloss surfaces are prone to blocking when stored with the film surfaces touching each other. Blocking is the term given when two surfaces adhere or merge into each other and when separated leave permanent marks on the film. For this reason, MacDermid Autotype supplies the **Autoflex PC** film range with a protective laminate on the print surface and recommend that the laminate remains in place until the first ink print pass.



TEXTURES

Autoflex PC can be screen printed on the hardcoat surface with Fototex to obtain selective textures (see Fototex Product Data Sheet).

TYPICAL PROPERTIES

Property	Autoflex PC	Test Method
Haze ¹ Gloss Antiglare	< 0.3% 9.5% ±3%	ASTM D1003
Total luminous transmission ¹	92% ± 2%	ASTM D1003
Gloss level (60°) ¹ Gloss Antiglare	93 ± 2 50 ± 5	ASTM D2457 (modified to test method 022)
Yellowness index ³	< 2	ASTM E313
Taber abrasion ¹ Gloss Antiglare	< 5% N/A	Test method 103
Hardcoat Adhesion ³	Pass	Test method 080
Switch life ¹	>5 million actuations	Test method 003
Pencil hardness ⁴	HB	Test method 058
Tensile strength at break ²	≥60 N/mm ²	ASTM D882
Breakdown voltage ² 250µm	67 kV/mm	ASTM D149
Dimensional stability ³	0.2% @ 135 °C MD maximum shrinkage	Test method 094
Thicknesses all grades ¹	Nominal ± 10%	Test method 096
Maximum processing temp	120°C	
Maximum use temp ¹	Low humidity (<10%RH) 85°C High humidity (10-95%RH) 60°C	Test method 012
Minimum use temp ¹	-40°C (-40°F)	Test method 012
Chemical resistance	Please refer to Autoflex PC Solvent Resistance Data Sheet	

¹For details of test method, please contact MacDermid Autotype

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

³Specification value

⁴For more information, please refer to MacDermid statement on pencil hardness testing



CONTACT INFORMATION

To confirm this is the most recent issue, please contact MacDermid Autotype

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