

# PEN ENTRY (PE21)

## Product Description

CPFilms' Pen Entry (PE21) Film is optically clear (OC™500) on hardcoated polyester film designed for use in industrial, commercial, medical and consumer touch screens products. Benefits include excellent uniformity, enhanced durability, clear and smooth surface, etc.

## PE21 Structure

<b>OC™500</b>
<b>CL HC</b>
<b>PET</b>
<b>CL HC</b>

## Availability

For price and availability information, please contact our Sales Department. Evaluation samples and technical support are available.

## Substrate (Clear HC/PET/Clear HC) Properties

	Typical Values	Test Method
PET Thickness	7.3 – 7.9 mil	Micrometer
Hardcoat Thickness	4 micron	CPFilms
Shrinkage Value (%)	0.2	150°C / 30mins
VLT (%)	92	Hazegard Plus
Haze (%)	0.7	Hazegard Plus
60 ° Gloss (GLU)	162	BYK Tri gloss
Color b*	1.2	Hunterlab
Coating Adhesion	5B	CPFilms
Taber Abrasion (%)	Initial haze + 4	CPFilms
Pencil Hardness	3H	CPFilms
Steel Wool Test	No Scratches	#0000, 200g 60 times
Acetone & Ethanol Rub Test	No Deterioration	2Kg, 50 strokes
Chemical Resistant (Acetone, Ethanol, Ammonia)	No Deterioration	R.T. 24 hrs
Thermal Shock	No Deterioration	CPFilms
Humidity	No Deterioration	60° C / 95% R.H. 720 hrs
Flexibility (Flex & Bend)	0.5 inch	180° (1 x)

## PE21 Properties (\*)

	Typical Values	Test Method
Resistance (ohms/sq.)	500	CPFilms
VLT (%)	89	Hazegard Plus
Color b	3.2	Hunterlab
Yellow Index	5.9	Hunterlab
Adhesion (R/Ro)	1.05	CPFilms
Abrasion (R/Ro)	1.05	CPFilms
Heat test (R/Ro)	1.1	150°C / 30 minutes
Humidity (R/Ro)	1.1	60°C / 95% R.H. 24 hrs
Pen durability Test	Touches 600K Scribes 310K	0.8 Stylus radius/250grams

**Note (\*):** Transmittance and resistance values depend on the base film. The above values are typical of PE product on optical grade polyester film with antiglare or clear hardcoat, but are not intended to be specifications. Data are typical values and not absolute.

**Note:** To the best of our knowledge, all information contained in this document is accurate. However, CPFilms, Inc. does not assume liability whatsoever for the accuracy or completeness of the information contained herein.

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