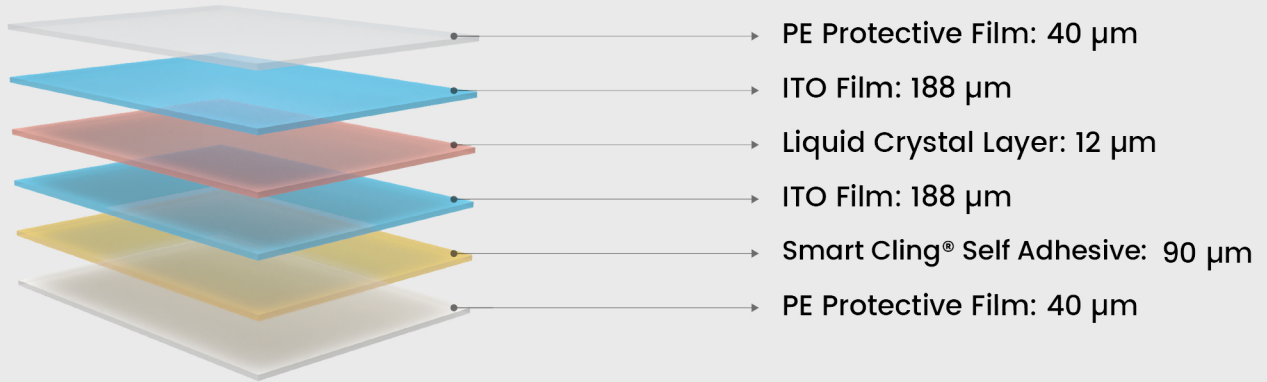


BLACKOUT SMART TINT®

(SMART CLING® SELF ADHESIVE)

1. Product Structure



2. Technical Parameters

Item		Mode	Unit	Tolerance	Value
Optical Properties	Visible Light Transmittance	On	%	±2.0	90
		Off	%	±2.0	85
	Haze	On	%	±0.5	2.5
		Off	%	±1.0	99
	Viewing Angle	On	°	/	> 140
Electrical Properties	Operating Voltage	On	AC/V	/	48 - 65(50/60HZ)
	Response Time / 25°C	On→Off	ms	/	≤ 200
		Off→On	ms	/	≤ 10
	Power Consumption / 25°C	On	W/m ²	/	≤ 5
Thermal Shrinkage	TD	/	%	/	≤ 0.5
	MD	/	%	/	≤ 1.0
Switching State		On	/	/	Transparent
		Off	/	/	Opaque
Functional Thickness		/	μm	±10	478

Color Difference ΔE (Reflection)	Off	CIELAB	/	L: 88±1.5 a: -1.5±1.0 b: 5.5±1.0
Glue Layer 90° Peeling Force	/	g	±15	45
Operating Temperature	/	°C	/	-20 - 65°C
Storage Temperature	/	°C	/	-20 - 60°C
Storage Humidity	/	%	/	20 - 60
Service Life	On	h	/	> 80000

3. Appearance Quality (Sheets & Rolls)

Defect Name	Size	Requirement
Point Defects on Functional Layer	Diameter \leq 0.5 mm	Not allowed to be dense
	0.5 mm < Diameter \leq 1.0 mm	S \leq 1: max 1 defect S > 1: max 1.0 × S defects
	Diameter > 1.0 mm	Not allowed
Line Defects on Functional Layer	Length \leq 30 mm & Width \leq 0.2 mm	Unlimited
	Length > 30 mm or Width > 0.2 mm	Allowed quantity: (2.0 × s)
	Length \leq 50 mm & Width \leq 0.2 mm	Allowed quantity: (1.0 × s)
Breakdown Points / Thick Spots		\leq 3 per roll, not allowed for sheets
Liquid Crystal Missing / Abnormally Clear Area Defects		\leq 2 per roll, not allowed for sheets