



NEW FRONTIER OF OPTICAL FILM

Optical Film Performance Unit Tri-Acetyl Cellulose Film



HYOSUNG CORPORATION

Chemicals PG Optical Film PU

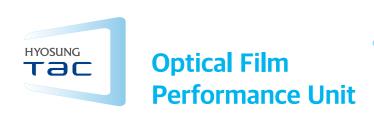
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Yongyeon Plant: (44784) 130, Yongyeon-ro, Nam-gu, Ulsan, Korea

Oksan Plant: (28101) 99, Oksansandan-ro, Oksan-myeon, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Korea

www.hyosung.com





We developed and produce TAC FILM, the core material for display, with the best technology

Hyosung is jumping up to be the global leading company in various fields of business, including textile, industrial materials, chemicals, heavy industry, construction, trading and IT, with outstanding technical skills and services.

Especially, Optical Film PU has developed TAC Film, whose productivity and quality are remarkably improved, at the very first in Korea, and been growing as a core maker in display field.



HYOSUNG TAC FILM PRODUCTION

















VALUE IN USE



Eco-friendly

Meet hazardous material regulations · Halogen Free · RoHS



No Acetylation under High Temperature/High humidity · No Crystal Mura



Superb TAC surface uniformity

· Excellent coating property (Preventing Coating Mura)

HYOSUNG PLANT

Hyosung produce wide plain film in Ulsan(Yongyeon plant), super-wide plain film in Cheongju(Oksan plant) and annual capacity is 110 million m².



Location: Yongyeon TAC Film #1 Line

Product : TAC Film Thickness: 80μm, 60μm, 40μm

Width: 1330mm ~ 1500mm CAPA: 50,000km²/Year

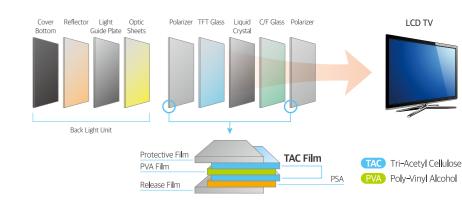


Location: Oksan TAC Film #2 Line

Product: TAC Film Thickness: 60 µm, 40 µm

Width: 1910mm ~ 2260mm CAPA: 60,000km²/year





TAC FILM BASIC PROPERTIES

ltem	Unit	Wide Plain TAC (1330~1500mm)			Super-wide Plain TAC (1910~2260mm)		Test	
		40 _µ m	60 _µ m	80 _µ m	40 µm	60 _µ m	Method	
Manufacturing process	-	Solvent Casting / Belt Type						
Transmittance at 620nm	%	93	93	93	93	93	JIS B-7113	
UV Transmittance at 380nm	%	5.8	3.5	2.9	4.0	3.5	JIS B-7113	
Retardation Ro	nm	0.5	0.5	0.8	0.4	2.0	Axoscan	
Retardation Rth	nm	26	31	50	20	40	Axoscan	
Haze	%	0.2	0.2	0.3	0.2	0.2	JIS K-7136	
Modulus (MD/TD)	N/mm²	4100/4300	3900/4000	3800/3900	4300/5000	4400/5100	ASTM D-882	
CTE (MD/TD)	<i>µ</i> m/m • °C	53/63	60/61	62/59	77/56	72/58	TMA	
Thermal Shrinkage (MD/TD) 90°C×24hr	%	0.09/0.02	0.07/0.02	0.07/0.02	0.10/0.01	0.10/0.01	Hyosung Method	

^{*} Above data are NOT standard of goods but representative property. Hence there would be changes of properties according to usage.