

Date: 25th, Mar, 2024

TECHNICAL DATA SHEET

Number: PT24-0325

1. IDENTIFICATION OF MATERIAL AND MANUFACTURER

- (1) Product Name : ACREX ULTRA PRO
 (2) Manufacturer
 PrintechKR (Hwaseong Factory) Co., Ltd.
 22 Songsansandan 3-gil, Songsan-myeon, Hwaseong-si, Gyeonggi-do, Republic of Korea

2. GENERAL DESCRIPTION / APPLICATION

ACREX is a film composed of acrylic material. ACREX ULTRA PRO is one of product type among ACREX series. It has a solid color with a special coating for soft touch, anti-fingerprint effect and strong surface hardness. Especially, it is designed for high mechanical property as more than 8 H. It is suitable for the production of door, wall panel or top table for office like vertical / horizontal and interior purpose by flat lamination. For flat lamination, recommended adhesive usage is PUR ; 45 g/m³ or EVA ; 70 g/m³. (It can be depending on condition.)

3. PROTECT FILM / STORAGE

This product has protection layer consist of 0.06 mm of PE. Protection layer has company logo and product name. ACREX series can be stored for more than 6 months under normal storage condition but it is recommended to use it in within 6 months.

4. SPECIFICATION; THICKNESS - WIDTH

The thickness of the finished product is 0.40 mm with a maximum width of 126 cm. Based on customer requirement, 132 cm as maximum width can be produced.

Physical property							
Test Item	Result	Quality Specification	Test Item	Standard	Result	Quality Specification	
Pencil Hardness	8 H	ASTM D3363 KS M ISO 15184	Stain Resistance Soy Sauce, Mustard, Black Tea, Coffee, Butter, Crayon, Marker Pen ink, Olive Oil, Paraffin, SBP, Sodium, Tea, Water and Others	≥ Grade 4	Grade 5	KS M 3332 / KS G ISO4 211	
Light fastness	PASS	SGS, GB/T 23987-2009 Method A & ASTM D2244-23					
Tensile Strength	X; 40.2 MPa Y; 38.1 MPa	ASTM D882 (KS M 3001-2022)					
Tearing Resistance	X; 102 kN/m Y; 108 kN/m	ASTM D1004 (KS M 3001-2002)	Adhesion Strength	No peeling	No peeling	KS M ISO2409	

Eco-Friendliness								
Test Item	Standard	Result	Quality Specification	Test Item	Standard	Result	Quality Specification	
Phthalates Content	DEHP	N.D.	N.D.	Heavy Metal	Total less than 1,000 mg/kg, only lead less than 600 mg/kg	Pb	N.D.	Environmental Pollutants process test UNIT : mg/kg
	DBP					Cd	N.D.	
	BBP					Hg	N.D.	
TVOC	≤ 0.1	≤ 0.004	cr+6	N.D.				
Toluene	≤ 0.015	≤ 0.001	KS M 1998-2002 (Small chamber method) UNIT : mg/m ² h	Formaldehyde	≤ 0.001	≤ 0.08	KS M1998-2022 Method for Indoor Air quality process UNIT : mg/m ² h	