

NITTO E-MASK RP Series

High performance surface protective film
with anti-static function, transparency and
heat resistance

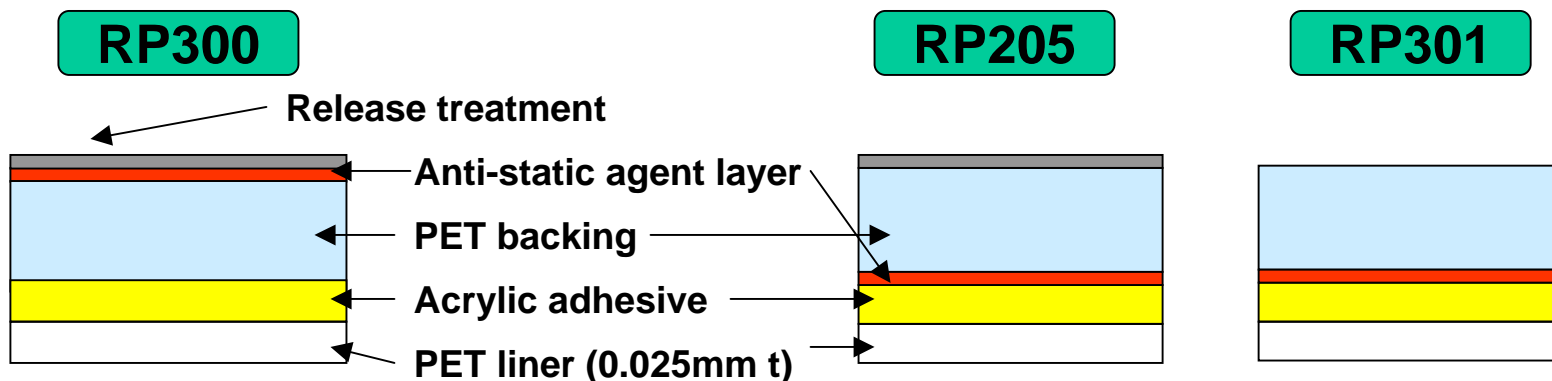
**By Surface Protection Products Div.
NITTO DENKO Co.**

Characteristics & Structures

E-MASK RP characteristics

- ◆ High transparency
- ◆ Heat resistance
- ◆ Suitable for optical & display applications including its production process
- ◆ Possible applications are polarizer, touch panel etc.
- ◆ No adhesive residue at wide range of temperatures
- ◆ With anti-static function
- ◆ Cleanliness featuring plastic core & **clean room production**

Structures



Properties

General Properties

		RP300	RP301	RP205
Backing Material		PET		
Adhesive Type		Acrylic Adhesive		
Color		Transparent		
Total Tape Thickness*¹	(mm)	0.06		0.068
Adhesion Strength*²	(N/20mm)	0.20		0.14
Surface Resistivity	Adhesive	1.0 x E ¹² & less	1.0 x E14 & over	1.0 x E14 & over
(Ω/ □)	Backing	1.0 x E ¹⁴ & over	1.0 x E12 & less	1.0 x E12 & less

***1 PET liner is not included**

***2 Test Method of Adhesion Strength**

Adherend : Acrylic plate

Laminate conditions : Pressure : 78N / cm, Speed : 0.3m / min.

Peeling conditions : Peeling angle : 180 deg., Peeling speed : 0.3 m/min.

The technical data in this documents are measured samples only and should not be used for any specification purposes.

Adhesion Strength on Polarizer

Unit : N/20mm

Adherend	Conditions	Adhesion Strength	
		0.3m/min.	10.0m/min.
		RP300, 301	
AG surface (S2B)	Initial ^{*1}	0.12	0.70
	40 C x 3 days	0.13	0.78
TAC	Initial ^{*1}	0.17	0.99
	40 C x 3 days	0.17	1.01

Test Method of Adhesion Strength

Laminate conditions : Pressure : 78N / cm

Peeling conditions : Peeling angle : 180 deg

***1 Initial : RT (23 C) x 30min.**

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Static Charge & Staining Properties

Static Charge at peeling

Unit : kV

Sample	RP300, 301	Without AS
SELF	0	+2.0
AG (S2B)	-1.3	-1.2

Peeling Conditions

Atmosphere : 23 C x 65%

Speed : 3m/min.

Sample Size

70mm x 100mm laminated on acrylic plate

Staining properties

Adherend	RP300, 301
AG (S2B)	No residue
TAC	Ditto

Test Method

1. Laminated with hand-roller
2. Auto-crave (60 C x, 5atm x 30min.) & Cool down for 3 hors at 23 C
3. 90 C x 3 hrs & Cool down for 3 hors at 23 C
4. Remove the E-MASK
5. Check the samples with green lamp generate at the rear

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