

1) What Is Bonron™ XPS Series?

- BONRON™ XPS series are [environmentally friendly water-based emulsions](#)
- BONRON™ XPS series [have excellent adhesion to non corona-treated PET film and non-treated PET film.](#)
- BONRON™ XPS series have adhesion to glass, polycarbonate, and aluminum, etc.
- BONRON™ XPS series can be used for primers and binders in paints, paper coatings, and film coatings.
- In the BONRON™ XPS series, an FDA grade exists.

2) Grades and Features*1

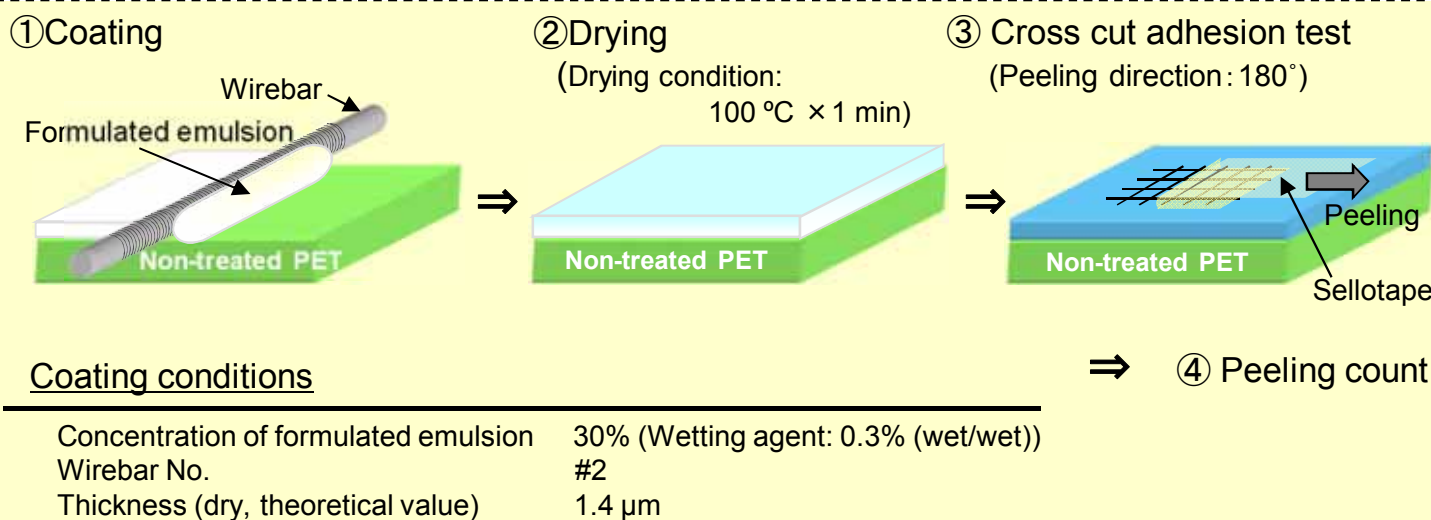
Grades	Resin	NV / %	pH	Viscosity / mPa·s	Tg*2 / °C	MFT / °C	Memo
PS-001	Ac	48 – 52	6 – 9	1000 – 8000	3	< 0	—
PS-002	St-Ac	43 – 47	6 – 9	100 – 1000	4	15	—
XPS-004*3	Ac	43 – 47	6 – 8	100 – 2000	3	< 0	FDA § 175.300 FDA § 177.1010

*1 These values are not specification

*2 Calculated values

*3 Prototype

3) Procedure for Evaluation



4) Results

Resin	Adhesion of non-treated PET
PS-001	25/25 (No peeling)
Acrylic	0/25 (Total peeling)
Polyester	5/25 (20 peeling points)
Urethane	0/25 (Total peeling)

Substrates	PS-001
Glass	25/25
Nylon 6	25/25
PC	25/25
PES	25/25
ABS	25/25
Acrylic	25/25
Aluminum	25/25
SUS	25/25