

SKY BON

Polyester binder for coatings and adhesives

We care for the future, Healthcare, Earthcare

We promote the health of humankind and protect the environment of the Earth.

Happy Harmony of Humans and the Environment

First comes the advancement of human health and the protection of the earth's environment through environmentally-friendly materials and provision of total healthcare solutions.

Since the establishment of Sunkyung Textiles in 1969, SK chemicals has grown through continuous change and innovation into a chemical and life sciences enterprise representing South Korea. SK chemicals' new mission statement says, "We enhance human health and protect the Earth's environment" and we have reorganized our business structure to focus on the two large sectors of green chemicals and life sciences. Providing distinguished chemical and life sciences products and solutions based on the world's highest technology standards, SK chemicals is recognized as a leading global company of environmentally-friendly materials and total healthcare solutions.

**Green
Chemicals**

**Life
Science**

SKYBON

Introduction

SKYBON



The polyester binder for coatings and adhesives

SKYBON resins are high molecular weight saturated copolyesters that exhibit excellent flexibility, chemical resistance and adhesion to a wide variety of materials such as metal, fabric, plastic, and foil substrates.

SKYBON are used in many applications including high performance adhesives and coatings, ink binders and textile sizing agents.

PRODUCT INFORMATION

ES / Solvent-borne Type

SKYBON ES series are amorphous copolymers which are soluble in a wide array of organic solvents. They are the resins of choice for applications such as can and coil coatings, ink binders, functional coatings and high performance adhesives.

EH / Hot-melt Type

SKYBON EH series are crystalline copolymers used as hotmelt adhesives. These extrudable resins are used for various applications such as adhesive for heat transfer label, heat sealable films, can side seam sealing and automotive filters due to the good adhesion, chemical resistance and flexibility.

EW, EM / Water-borne Type

SKYBON EW, EM series are water dispersible amorphous polymers used for textile sizing, waterbased coatings and adhesives.

SKY BON grades

Solvent- borne type

Grade	IV	Mn	Tg	OHV	AV	Shape	Can Coating		Coil Coating		Can seam sealing	Heat seal	Lamination	Coating & primer
	dl/g	10 ³ g/mol	°C	mgKOH/g	mgKOH/g		External	Internal	Primer	Top				
ES-100	0.62	21	67	3	< 3	Pellet	v	v	v			v	v	v
ES-105	0.44	16	67	8	< 3	Pellet			v				v	v
ES-110	0.53	18	67	4	< 3	Pellet	v	v	v			v	v	v
ES-110M	0.59	14	65	7	5	Pellet			v			v	v	v
ES-120	0.59	20	68	4	< 3	Pellet	v	v	v			v	v	v
ES-160	0.62	19	52	4	< 3	Pellet			v				v	v
ES-215	0.85	25	-11	3	< 3	Sheet			v			v	v	
ES-220	0.97	20	-4	2	< 3	Pellet						v	v	
ES-240	0.70	23	48	3	< 3	Pellet			v				v	
ES-250	0.59	21	68	4	< 3	Pellet						v		
ES-300	0.73	25	16	3	< 3	Sheet							v	v
ES-305	0.85	25	-6	3	< 3	Sheet						v	v	
ES-330	0.86	28	16	3	< 3	Sheet		v					v	
ES-350	0.78	28	16	3	< 3	Sheet		v					v	
ES-360	0.72	23	18	4	< 3	Sheet		v	v				v	v
ES-361	0.64	23	13	4	< 3	Sheet			v				v	
ES-360M	0.85	23	17	8	< 3	Sheet			v			v	v	
ES-365	0.80	28	16	4	< 3	Sheet			v			v	v	
ES-380	0.72	20	25	11	< 3	Sheet							v	
ES-420	0.50	17	45	6	< 3	Pellet	v	v	v			v	v	v
ES-450	0.50	18	50	6	< 2	Pellet	v	v	v				v	v
ES-460M	0.47	14	37	8	3	Pellet	v	v	v				v	
ES-500	0.70	22	13	5	< 3	Sheet			v			v	v	
ES-510	0.65	19	13	9	< 3	Sheet			v				v	
ES-660	0.46	17	70	8	< 3	Pellet	v	v						
ES-670	0.76	25	45	3	< 3	Pellet	v	v	v					
ES-680	0.59	18	57	5	3	Pellet	v	v						
ES-720	0.63	16	20	9	< 3	Sheet	v							
ES-770	0.48	17	70	8	< 3	Pellet	v	v						
ES-850	0.26	9	31	19	< 3	Lump		v	v	v				v
ES-901	0.62	21	71	6	< 3	Pellet			v					
ES-910	0.45	15	69	9	< 3	Pellet			v					
ES-955	0.39	15	58	12	< 3	Pellet			v					
ES-960	0.30	8	21	18	< 3	Lump				v				v

SKY BON grades

Water- borne type

Grade	IV	Tg	Mn	OHV	AV	Shape	Can Coating		Coil Coating		Can seam sealing	Heat seal	Lamina-tion	Coating & primer
	dl/g	°C	10 ³ g/mol	mgKOH/g	mgKOH/g		External	Internal	Primer	Top				
EW-100R	0.42	46	12	4		Pellet								v
EW-100Q	0.45	46	12	4		Pellet								v
EW-210	0.35	60	12	5		Pellet							v	v
EW-230	0.40	60	12	5		Pellet								v
EW-312	0.45	58	12	5		Pellet							v	v
EW-370	0.45	43	12	4		Pellet							v	v
EM-110P	0.53	62	17	4	< 3	45% Liquid							v	v
EM-2360P	0.72	21	21	3	< 3	40% Liquid							v	v
EM-660P	0.46	68	16	5	< 3	45% Liquid							v	v

Hotmelt adhesive

Grade	IV	Tm	Mn	Tg	MI	Shape	Can Coating		Coil Coating		Can seam sealing	Heat seal	Lamina-tion	Coating & primer
	dl/g	°C	10 ³ g/mol	mgKOH/g	g/10min, 2.16kg		External	Internal	Primer	Top				
EH-100	0.73	103	19	-7	37@160°C	Pellet							v	
EH-101	0.73	116	18	-1	29@160°C	Pellet							v	
EH-200	0.79	178	18	54	10@220°C	Pellet						v		
EH-401	0.65	136	18	27	14@160°C	Pellet							v	
EH-500	0.63	170	19	21	39@180°C	Pellet					v			
EH-550	0.70	156	19	23	26@180°C	Pellet					v			
EH-601	0.76	130	22	16	20@175°C	Pellet							v	
EH-700	0.61	101	19	14	40@160°C	Pellet							v	



SKYBON

for can coating



Interior

Closure

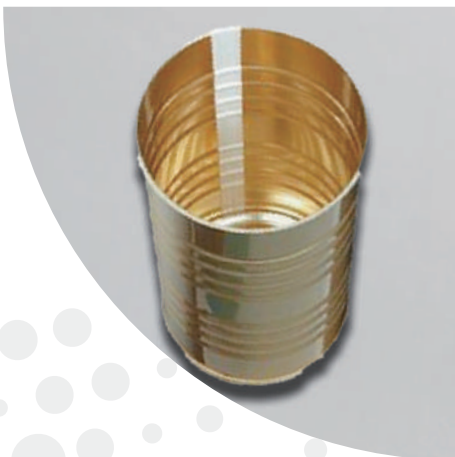
Exterior

Easy-open-end

Side seam sealing



- Compliant with food contact regulations
- BPA-NI
- Outstanding adhesion to metal surface
- Chemical resistance
- Excellent flexibility
- Surface hardness and scratch resistance
- Wide range of properties (Molar mass, Tg, Functionality)



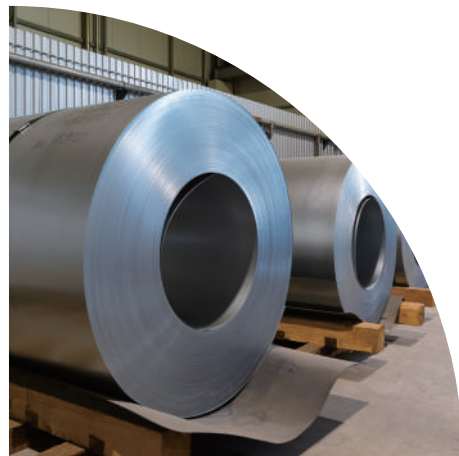
SKYBON

for coil coating

Home appliance

Construction

- Solvent solubility
- Outstanding adhesion to metal surface
- Excellent flexibility
- Chemical resistance
- Surface hardness and scratch resistance
- Heat resistance
- Wide range of properties (Molar mass, Tg, Functionality)





SKYBON

for flexible packaging

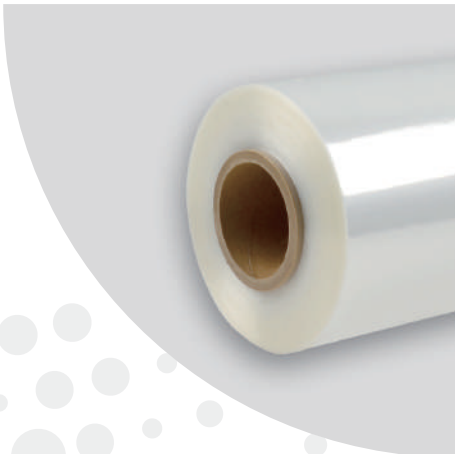
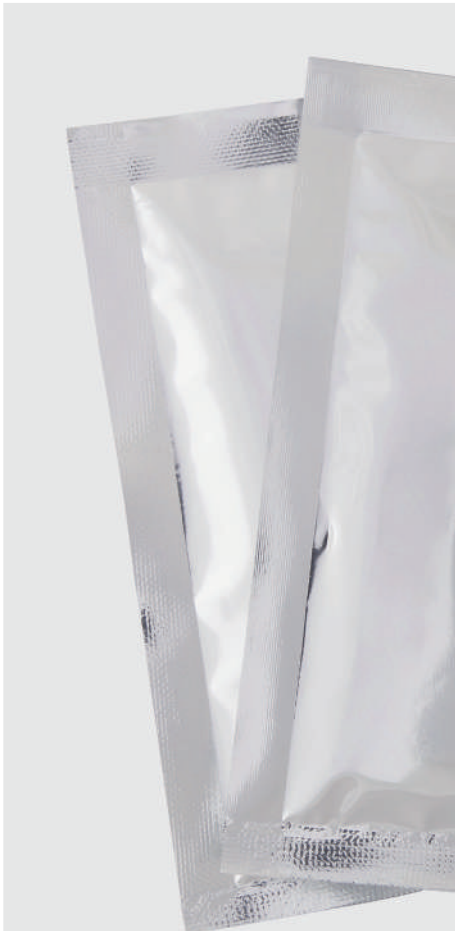
Primer

Varnish

Adhesive

Lidding film

- Excellent adhesion to various materials
- Heat resistance (retort)
- High flexibility
- Chemical resistance
- Printability as a primer
- Both solvent type and hotmelt type are available.



SKYBON

for industrial lamination

Reflective film

Flexible flat cables

PET film primer

Ink binder for gravure and screen

Battery pouch

- Excellent adhesion to plastic films and metal surfaces
- High heat and chemical resistance
- Low heat activation
- Outstanding flexibility





SKYBON

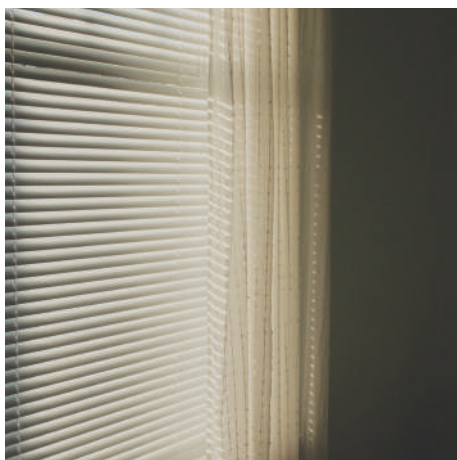
for **textile coating and adhesion**

Heat transfer label

Shoe tongue label

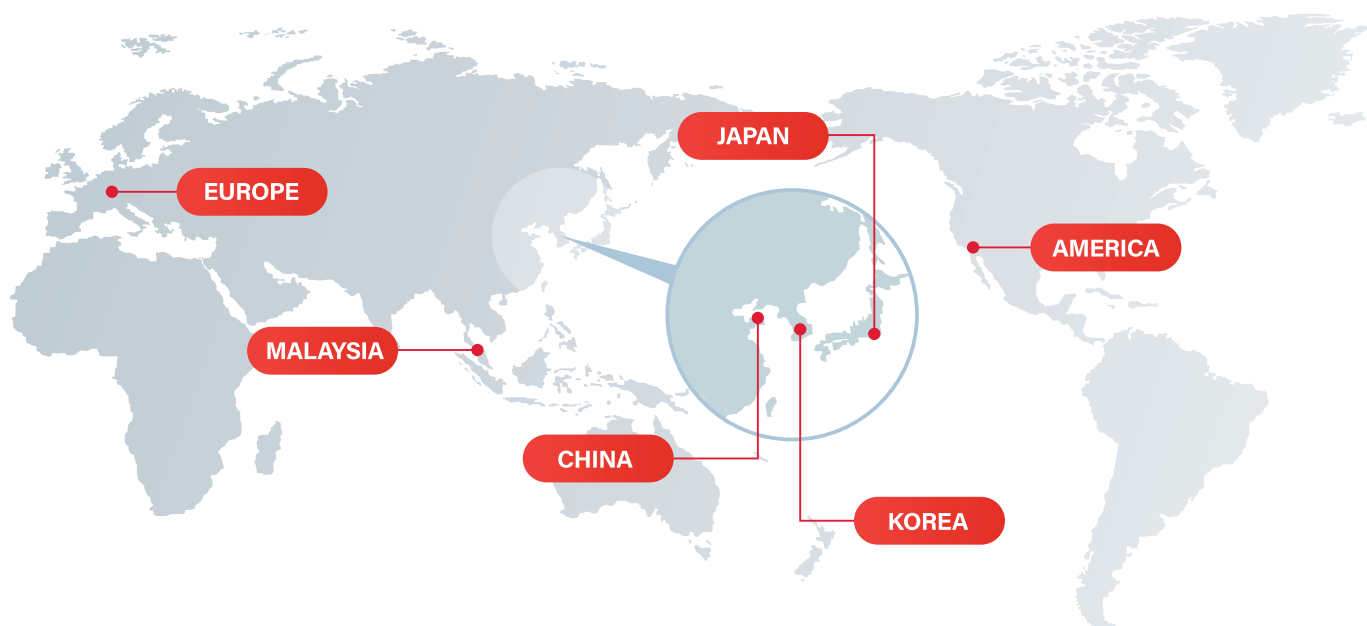
Adhesive for car carpet and headliner

Fabric blinds



- Excellent adhesion to textile
- No drying process required when using EH product
- Wash resistance
- Solvent free, amine or ammonium free (low odor)
- Economical vs polyamide or polyurethane
- Excellent compatibility with phosphorus flame retardants

Global Network



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