

SKY BON

Polyester Binder for Coatings and Adhesives



SKYBON

Introduction

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SKYBON

| The polyester binder for coatings and adhesives |

SKYBON resins are saturated high molecular weight 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, sealant films, 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 heat sealable laminating adhesives and films. These extrudable resins have outstanding chemical resistance, and the product line offers a wide temperature range for effective heat sealing properties in a variety of applications, including heat transfer films, labels, food lidding, can seams, and automotive filters.

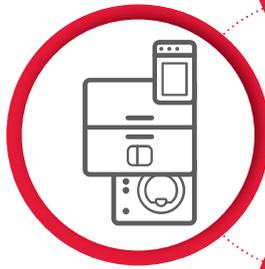
| EW / Water-borne Type |

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

ES

SOLVENT-BORNE
POLYESTER
RESIN

Coil coating



Can coating



Industrial coating & adhesives
(Flexible packaging, stamping foil)

USE

Features

- Superior flexibility
- Excellent adhesion on various substrate such as steel, PET, PVC film
- Good transparency and hardness

Characteristic values

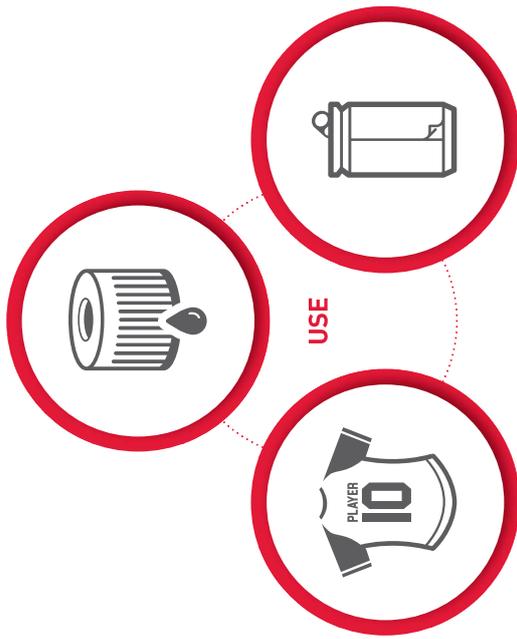
SKYBON Product	IV ⁽¹⁾	Mn ⁽¹⁾	Tg ⁽¹⁾	SP ⁽¹⁾	OHV	AV	Structure ⁽¹⁾	Shape
	dl/g	Da	°C	°C	mgKOH/g	mgKOH/g		
ES-100	0.62	20,000	67	140	3	<2	L	Pellet
ES-110	0.53	18,000	67	135	4	<3	L	Pellet
ES-110M	0.59	14,000	65	135	7	5	B	Pellet
ES-120	0.59	21,000	68	145	4	<2	L	Pellet
ES-160	0.62	19,000	52	130	4	<3	L	Pellet
ES-215	0.86	35,000	-10	100	3	<2	L	Sheet
ES-220	0.97	35,000	-4	145	2	<2	L	Pellet
ES-240	0.70	32,000	48	130	3	<2	L	Pellet
ES-250	0.59	25,000	68	145	4	<2	L	Pellet
ES-300	0.73	28,000	16	105	3	<2	L	Sheet
ES-330	0.86	33,000	16	110	3	<2	L	Sheet
ES-350	0.78	32,000	16	110	3	<2	L	Sheet
ES-360	0.72	28,000	18	110	4	<2	L	Sheet
ES-360M	0.86	32,000	17	110	8	<2	B	Sheet
ES-365	0.81	40,000	16	110	4	<2	L	Sheet
ES-410	0.50	16,000	44	130	6	<2	L	Pellet
ES-420	0.50	16,000	44	130	6	<3	L	Pellet
ES-450	0.50	18,000	50	130	6	<2	L	Pellet
ES-460M	0.47	7,000	37	120	10	3	B	Pellet
ES-500	0.71	26,000	13	90	5	<2	L	Sheet
ES-510	0.66	19,000	13	100	9	<2	B	Sheet
ES-660	0.46	18,000	70	145	8	<2	L	Pellet
ES-670	0.76	30,000	45	120	3	<2	L	Pellet
ES-680	0.59	20,000	57	130	5	4	B	Pellet
ES-710	0.40	10,000	37	125	25	<3	B	Flake
ES-720	0.63	16,000	22	110	9	<3	B	Sheet
ES-770	0.48	18,000	70	140	8	<2	B	Pellet
ES-850	0.27	7,000	31	90	19	<2	L	Flake
ES-900	0.32	8,000	22	85	15	<3	L	Flake
ES-901	0.62	21,000	69	145	6	<2	L	Pellet
ES-910	0.45	15,000	68	135	9	<2	L	Pellet
ES-940	0.46	13,000	40	120	9	5	B	Pellet
ES-950	0.48	16,000	11	100	9	5	B	Sheet
ES-955	0.39	12,000	58	125	12	<2	L	Pellet
ES-960	0.30	7,500	21	75	18	<2	L	Flake
ES-980	0.39	12,000	23	95	17	<3	B	Flake
HIPES-90A	0.45	16,000	92	160	5	<3	L	Pellet
HIPES-110	0.41	14,000	111	170	8	<2	L	Pellet

(1) OCP at 35°C (2) THF (3) DSC (4) Ring & Ball (5) L : Linear / B : Branched
All data herein are believed to be correct. However, this should not be accepted as a guarantee of their accuracy and confirming tests should be run in your own plant or laboratory.

EH

HOTMELT
POLYESTER
RESIN

Automotive air filter,
fuel and oil filter



Features

- Strong adhesion to various substrates such as fabrics, metal, paper
- Excellent chemical resistance
- No VOC

Characteristic values

SKYBON Product	IV ⁽¹⁾	Mn ⁽²⁾	Tm	Tg ⁽³⁾	MI	Structure ⁽⁴⁾	Shape
	dl/g	Da	°C	°C	g/10min, 2.16kg		
EH-100	0.73	19,000	103	-7	37 @160°C	L	Pellet
EH-101	0.73	19,000	116	-1	29 @160°C	L	Pellet
EH-401	0.65	18,000	136	27	14 @160°C	L	Pellet
EH-500	0.63	17,000	170	21	39 @180°C	L	Pellet
EH-550	0.70	22,000	156	23	24 @180°C	L	Pellet
EH-575	0.66	18,000	170	22	27 @180°C	L	Pellet
EH-601	0.76	22,000	130	16	20 @175°C	L	Pellet
EH-601M	0.77	22,000	117	16	23 @175°C	L	Pellet
EH-700	0.61	27,000	101	14	40 @160°C	L	Pellet

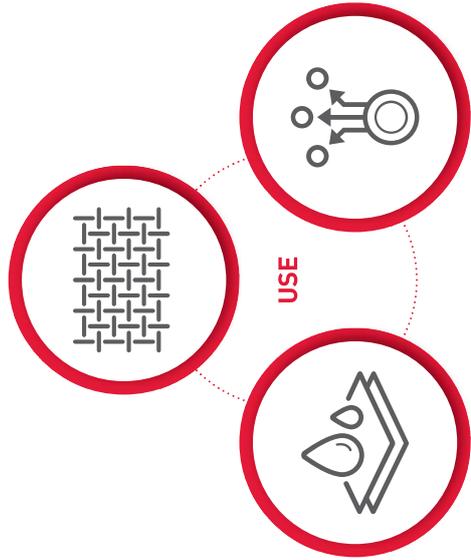
(1) OCP at 35°C (2) OCP/CHCl₃ (3) DSC (4) L : Linear

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EW

WATER-BORNE POLYESTER RESIN

Sizing agent for
textile



Water based
textile coating

Modifier for aqueous
dispersed resin

Features

- Outstanding water dispersibility
- Superior adhesion on general materials
- Amine-free / ammonia-free

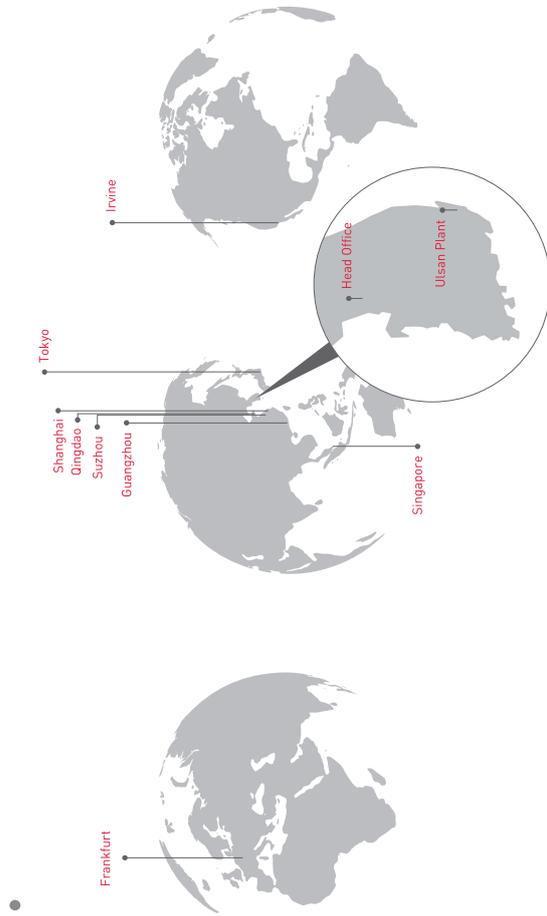
Characteristic values

SKYBON Product	IV ⁽¹⁾ dl/g	Mn ⁽²⁾ Da	Tg ⁽³⁾ °C	OHV mgKOH/g	AV mgKOH/g	Dispersion ⁽⁴⁾		Structure ⁽⁵⁾	Shape
						Media	Media		
EW-100Q	0.42	12,000	46	4	4	DW	DW	L	Pellet
EW-100R	0.45	12,000	46	4	4	DW	DW	L	Pellet
EW-210	0.35	12,000	60	5	3	DW	DW	L	Pellet
EW-230	0.40	12,000	60	5	<3	DW/IPA	DW/IPA	L	Pellet
EW-312	0.45	12,000	58	5	<3	DW/IPA	DW/IPA	L	Pellet
EW-370	0.45	12,000	43	4	4	DW/IPA	DW/IPA	L	Pellet

(1) OCP at 35°C (2) THF (3) DSC (4) DW : De-ionized Water (5) L : Linear

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for the future
Healthcare,
Earthcare