

**Solvent Solubility** \* S : Soluble, PS : Partially Soluble, I : Insoluble

Solvent Type	Resin Solubility (Solid 25wt%)		
	SUKOREZ	HIKOREZ	HIKOTACK
Hexane	S	S	PS
Butyl Acetate	I	S	S
Methyl Isobutyl Ketone	I	I	S
Carbon Tetrachloride	S	S	S
Isopropyl Alcohol	I	I	I
Toluene	S	S	S
Ethyl Acetate	I	PS	S
Tetrahydrofuran	S	S	S
Benzene	S	S	S
Chloroform	S	S	S
Methyl Ethyl Ketone	I	I	S
Chlorobenzene	S	S	S
Acetone	I	I	S
Carbon Disulfide	S	S	S
1,4-Dioxan	I	I	S
Aniline	I	I	S
Butyl Alcohol	I	I	I
Furfuryl Alcohol	I	I	I
Methanol	I	I	I

**Compatibility** C : Compatible, PC : Partially Compatible, I : Incompatible

MATERIAL	Resin Solubility (Solid 25wt%)				
	SUKOREZ	HIKOREZ	HIKOTACK		
			Low S.P	High S.P	
<b>Natural Oils</b>	Linseed Oil	C	C	C	C
	Soybean Oil	C	C	C	C
	Tall Oil	C	C	C	C
	Cast Oil	I	I	I	I
<b>Plasticizers</b>	Tricresyl Phosphate	C	C	C	C
	Butyl Benzyl Phthalate	C	C	C	C
	Diethyl Phthalate	C	C	C	C
	Dibutyl Phthalate	C	C	C	C
<b>Rosins</b>	Gum Rosin	C	C	C	C
	Tall Rosin	C	C	C	C
	Ester Gum	C	C	C	C
	Polyterpene	C	C	C	C
<b>Waxes</b>	Paraffin Wax	C	C	C	C
	Microcrystalline Wax	C	C	C	C
	Caruba Wax	C	C	C	C
	Polyethylene Wax	C	C	C	C
<b>Rubbers/ Elastomers</b>	Natural Rubber	C	C	PC	I
	Styrene Butadiene Rubber	I	PC	C	C
	Butyl Rubber	C	C	PC	I
	SBS Block Copolymer	C	PC	C	PC
	SIS Block Copolymer	C	C	C	PC
	SEBS Block Copolymer	C	C	C	PC
	Amorphous Poly Alpha Olefin (APAO)	C	C	I	I
Ethylene Vinyl Acetate Copolymer (EVA)	C	C	C	C	
<b>Resins/ Polymers</b>	Acrylic Ester Resin	I	I	C	C
	Epoxy Resin	I	I	C	PC
	Alkyd Resin	I	I	C	PC
	Polyvinyl Chloride Resin	I	I	C	C
	Polystyrene	PC	PC	C	I
	Phenolic Resin	PC	PC	C	C



**SUKOREZ**  
KOLON INDUSTRIES

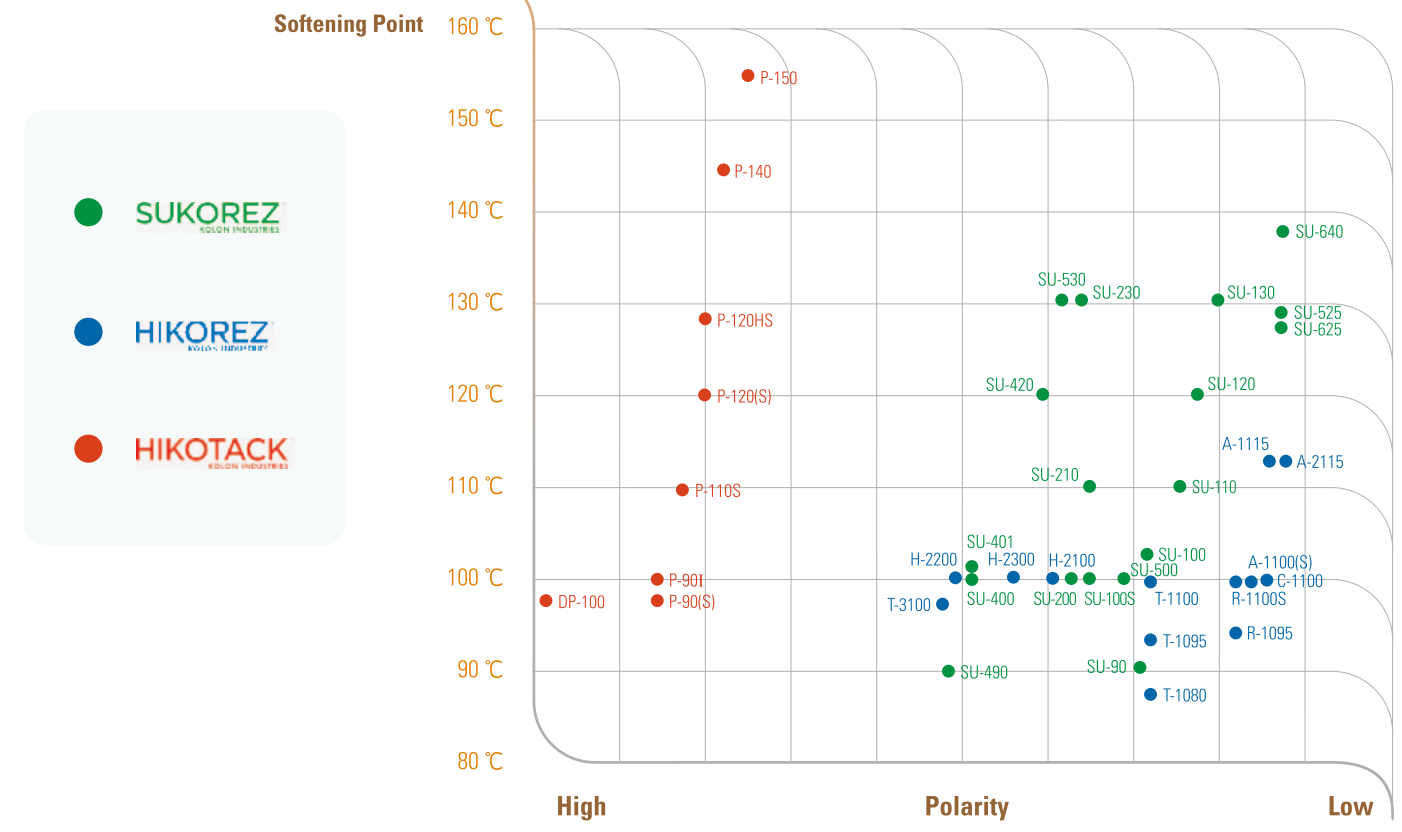
**HIKOREZ**  
KOLON INDUSTRIES

**HIKOTACK**  
KOLON INDUSTRIES

*Kolon hydrocarbon resins meet the customer's needs by offering a wide and innovative technology.*

**KOLON INDUSTRIES, INC.**

**Properties Window**



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**SUKOREZ**  
KOLON INDUSTRIES

**Hydrogenated Hydrocarbon Resins**

Hot Melt Adhesive(HMA) /  
Hot Melt Pressure Sensitive Adhesive(HMPA) /  
P/P film modifier



**Specifications**

1) 50% Toluene Solution, 2) 100% Molten Resin (200°C, 5hrs)

Item Unit	Softening Point°C	Color <sup>1)</sup> Hazen#	Heat Stability <sup>2)</sup> Gardner#	Acid Value KOHmg/g	Features	Production Site
Test Method	ASTM E 28	ASTM D 1209	ASTM D 1544	ASTM D 974		
SU-90	85 ~ 95	Max. 50	Max. 2	Max. 0.1	Low SP and Waterwhite	Ulsan
SU-100	100 ~ 109	Max. 50	Max. 2	Max. 0.1	General Purpose, Waterwhite	Ulsan
SU-100S	97 ~ 106	Max. 50	Max. 2	Max. 0.1	Waterwhite	Yeosu, Daesan
SU-110	110 ~ 115	Max. 50	Max. 2	Max. 0.1	Waterwhite	Ulsan
SU-120	116 ~ 125	Max. 50	Max. 2	Max. 0.1	Higher SP and Waterwhite	Ulsan
SU-130	126 ~ 135	Max. 50	Max. 2	Max. 0.1	Highest SP and Waterwhite	Ulsan
SU-200	97 ~ 106	Max. 100	Max. 5	Max. 0.1	Light Color	Yeosu, Daesan
SU-210	107 ~ 114	Max. 100	Max. 5	Max. 0.1	High SP and Light Color	Yeosu, Daesan
SU-230	126 ~ 135	Max. 100	Max. 4	Max. 0.1	High SP and Light Color	Yeosu, Daesan
SU-490	86 ~ 96	Max. 50	Max. 2	Max. 0.1	C9 Modified Resin, Waterwhite	Yeosu, Daesan
SU-400	97 ~ 107	Max. 50	Max. 2	Max. 0.1	C9 Modified Resin, Waterwhite	Yeosu, Daesan 
SU-401	97 ~ 107	Max. 50	Max. 2	Max. 0.1	C9 Modified Resin, Waterwhite	Yeosu
SU-420	115 ~ 125	Max. 50	Max. 2	Max. 0.1	C9 Modified Resin, Waterwhite	Yeosu, Daesan
SU-500	97 ~ 106	Max. 30	Max. 1	Max. 0.1	Excellent heat stability	Yeosu
SU-525	120 ~ 130	Max. 30	Max. 1	Max. 0.1	Excellent heat stability	Yeosu
SU-530	126 ~ 135	Max. 50	Max. 2	Max. 0.1	C9 Modified Resin, Waterwhite	Yeosu
SU-625	120 ~ 130	Max. 30	Max. 1	Max. 0.1	Excellent heat stability	Yeosu
SU-640	134 ~ 142	Max. 30	Max. 1	Max. 0.1	Excellent heat stability	Yeosu

**Applications**

Application	Main Components	Recommended SUKOREZ® Grades
Non-Woven	SIS, SBS, SEBS, me-PO	SU-90, SU-100, SU-100S, SU-120, SU-200, SU-210, SU-230, SU-400, SU-401, SU-420, SU-530, SU-490, SU-500, SU-525
Hot Melt Adhesives	EVA, me-PO	SU-100, SU-100S, SU-110, SU-120, SU-200, SU-210, SU-230, SU-400, SU-401, SU-420, SU-530, SU-500, SU-525, SU-625, SU-640
Wax Compounding Sealants	Wax LDPE, APO	SU-100, SU-100S, SU-400, SU-401, SU-100, SU-100S, SU-500
Polymer Modification	PE, PP	SU-625, SU-640
Water-Proof Agent	Wax	SU-100, SU-100S, SU-120, SU-500, SU-525

**HIKOREZ**  
KOLON INDUSTRIES

**Aliphatic Hydrocarbon Resins**

Hot Melt Adhesive(HMA) /  
HMPA / Tapes /  
Hot Melt Road Marking(HMRM) /  
Tire



**Specifications**

3) 100% Molten Resin, 4) 100% Molten Resin (200°C, 3hrs / H-Series : 200°C, 5hrs)

Item Unit	Softening Point°C	Color <sup>3)</sup> Gardner#	Heat Stability <sup>4)</sup> Gardner#	Acid Value KOHmg/g	Melt Viscosity at 200°C, cps	Features	Production Site
Test Method	ASTM E 28	ASTM D 1544	ASTM D 1544	ASTM D 1639	ASTM D 3236		
A-1100	94 ~ 102	Max. 6	Max. 8	Max. 1	Max. 200	General Purpose	Ulsan
A-1100S	94 ~ 102	Max. 6	Max. 8	1.00 ~ 1.99	Max. 200	Acid Modified Resin	Ulsan
A-1115	108 ~ 116	Max. 6	Max. 8	Max. 1	-	High SP	Ulsan
A-2115	108 ~ 116	Max. 6	Max. 8	Max.1	-	High SP, Low Molecular Weight	Ulsan
C-1100	94 ~ 102	Max. 6	Max. 8	Max. 1	-	High Molecular Weight	Ulsan
R-1095	93 ~ 99	Max. 6	Max. 8	2.00 ~ 3.00	-	Acid Modified Resin	Ulsan
R-1100S	94 ~ 102	Max. 6	Max. 8	2.00 ~ 3.00	Max. 250	Acid Modified Resin	Ulsan
T-1080	80 ~ 90	Max. 6	Max. 8	Max. 1	-	C9 Modified Resin	Ulsan
T-1095	84 ~ 98	Max. 6	Max. 8	Max. 1	-	C9 Modified Resin	Ulsan
T-1100	94 ~ 102	Max. 6	Max. 8	Max. 1	-	C9 Modified Resin	Ulsan
T-3100	94 ~ 102	Max. 8	Max. 10	Max. 1	-	Highly C9 Modified	Ulsan
H-2100	97 ~ 106	Max. 3	Max. 8	Max. 0.1	-	Hydrogenated, Good Heat Stability	Yeosu, Daesan
H-2200	95 ~ 105	Max. 4	Max. 8	Max. 0.1	-	Hydrogenated, Highly C9 Modified	Yeosu, Daesan
H-2300	95 ~ 105	Max. 3	Max. 8	Max. 0.1	-	Hydrogenated, C9 Modified Resin	Yeosu, Daesan

**Applications**

Application	Main Components	Recommended HIKOREZ® Grades
Tapes	NR, SIS, SBR	A-1100(S), A-1115, A-2115, C-1100, T-1080, T-1095, T-1100, T-3100, H-2100, H-2300
Pressure Sensitive Adhesives	NR, BR, SIS	A-1100(S), A-1115, A-2115, H-2100, H-2200, H-2300
Hot Melt Adhesives	EVA	A-1100(S), A-1115, A-2115, C-1100, T-1080, T-1095, T-1100, T-3100, H-2100, H-2300
Solvent Based Adhesives	CR, SBR	C-1100, H-2200, H-2300
Hot Melt Road Marking	Fillers	A-1100S, R-1095, R-1100S
Rubber Compounding	NR, BR, SBR	A-1100, C-1100, T-1095, T-3100
Asphalt Modification	Asphalts	A-1115, R-1100S
Wax Compounding	Wax	A-1100, C-1100, H-2100
Sealants	LDPE, APO	A-1100, C-1100, H-2100

**HIKOTACK**  
KOLON INDUSTRIES

**Aromatic Hydrocarbon Resins**

Rubber /  
Adhesive /  
Ink /  
Paint



**Specifications**

5) Color : 50% Toluene Solution

Item Unit	Softening Point°C	Color <sup>5)</sup> Gardner#	Acid Value KOH mg/g	Bromine Number Br cg/g	Features	Production Site
Test Method	ASTM E 28	ASTM D 1544	ASTM D 974	ASTM D 1159		
DP-100	95 ~ 105	Max. 10	Max. 0.1	Max. 30	Phenol Modified Resin	Ulsan
P-90	90 ~ 100	Max. 9	Max. 0.1	Max. 30	Low SP	Ulsan
P-90S	90 ~ 100	Max. 8	Max. 0.1	Max. 30	Low SP and Lighter Color	Ulsan
P-90HS	95 ~ 105	Max. 9	Max. 0.1	Max. 30	-	Ulsan
P-90I	96 ~ 104	Max. 9	Max. 0.1	Max. 30	Good Compatibility	Ulsan
P-110S	107 ~ 113	Max. 8	Max. 0.1	Max. 30	-	Ulsan
P-120	115 ~ 125	Max. 8	Max. 0.1	Max. 30	General Purpose	Ulsan
P-120S	115 ~ 125	Max. 7	Max. 0.1	Max. 30	General Purpose, Lighter Color	Ulsan
P-120P	115 ~ 125	Max. 8	Max. 0.1	Max. 30	Phenol Modified Resin	Ulsan
P-120H	115 ~ 125	Max. 7	Max. 0.1	Max. 30	Good Compatibility	Ulsan
P-120HS	126 ~ 130	Max. 7	Max. 0.1	Max. 30	High SP	Ulsan
P-140	140 ~ 150	Max. 7	Max. 0.1	Max. 30	-	Ulsan
P-150	150 ~ 160	Max. 7	Max. 0.1	Max. 30	-	Ulsan
LP-9800	Liquid Resin	Max. 15	Max. 0.5	-	Melt Viscosity 6,000~10,000(@25°C)	Ulsan

**Applications**

Application	Main Components	Recommended HIKOTACK® Grades
Hot Melt Based Adhesives	EVA, Wax	P-90(S), P-90I, P-110S, P-120(S), P-120H, P-140
Solvent Based Adhesives	CR, NR	P-90(S), P-90I, P-110S, P-120(S), P-120HS, P-140, P-150
Flooring Adhesives	Acryl, SBR latex	P-90(S), P-90I, P-120(S)
Modified Epoxy Paint	Epoxy resin	P-90(S), P-90I, P-120(S), P-120H, P-140, P-150
Alkyd Paint	-	P-90(S), P-90I, P-120(S), P-120H, P-120P
Rubber Compounding	NR, SBR	P-90(S), P-90I, P-90HS, LP-9800
Newspaper Printing Ink	Phenolic resin	P-120, P-140
Water Repellent Agent	Paraffin wax	P-120, P-140
Asphalt Modification	Asphalts	P-90, P-120, P-120HS, P-140, P-150
Concrete Curing Agent	Wax, Solvent	P-90, P-120