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ARAKAWA TECHNICAL DATA

SUPER ESTER "W" SERIES | August, 1998

1. Introduction

In order to meet an increasing demand for a lighter colored tackifier resin in a current hot melt and pressure-sensitive adhesive industry, Arakawa Chemical Industries, Ltd. have successfully improved gardner color specifications of SUPER ESTER A series by 2 to 4 degrees, and placed them on the market both home and abroad.

SUPER ESTER W series are characterized by its lighter color, excellent heat stability, widely ranged solubility and compatibility, and well-balanced adhesion properties for use in formulation of hot melt and pressure-sensitive adhesive.

2. Typical Properties

SUPER ESTER	Appearance	Color max. (G)	Color typical (G)	Softening point	Acid value max.
W-100	Flake	7	4	95 – 100	10.0
W-115	Flake	7	5	108 – 120	20.0
W-125	Flake	7	5	118 - 130	20.0

3. Solubility

n-Hexane	:	Soluble
Petroleum benzine	:	Soluble
Toluene	:	Soluble
tri-Chloroethylene	:	Soluble
Ethyl acetate	:	Soluble
Acetone	:	Soluble
Ethanol	:	Insoluble

4. Compatibility

	ELASTOMER					
SUPER ESTER	NR	SBR	SIS	SBS	ACRYL	EVA
W-100	A	A	A	A	A	A
W-115	A	A	A	A	B	A
W-125	B	C	C	C	C	A

Note :

1. Ratio — Super Ester／Elastomer = 100／50 PHR
2. Elastomer — SIS : TR-1107; SBS : TR-1102; Acryl : ARON-S; EVA : #220
3. Compatibility — A : Completely clear; B : Clear; C : Slightly haze; D : Haze

5. Test Report

A) EVA Base Hot Melt Adhesive

Formulation

Resin	40 Parts by wt.
EVA #220	40 Parts by wt.
Micro Wax.	20 Parts by wt.

Super Ester	Heat Stability at 180℃ for 72 hr.	Adhesion Strength T-Peel Al/Al (g/25mm)	Heat resistance Al/Al Separation temp. (℃)	Cold resistance K. liner/K. liner at 5℃
A-100	〃	1,230	51.5	〃
W-100	〃	1,210	52.3	〃
A-115	〃	1,220	54.5	〃
W-115	〃	1,210	55.5	〃
A-125	〃	1,050	61.5	〃
W-125	〃	1,050	60.5	〃