



TAMANOL 901

2001/12/11

1. INTRODUCTION

Tamanol 901 is a thermoplastic rosin phenolic resin developed by Arakawa Chemical Industries, and has a high softening point and used as a tackifier for Polychloroprene adhesive and hot melt adhesives etc.

As this resin has a narrow molecular weight distribution and some polar group, it is compatible with various kinds of elastomers, resins, and soluble in various kinds of solvents.

As a tackifier for hot melt adhesives, Tamanol 901 provides excellent heat stability, increase the heat creep and also increase the adhesion to various kinds of surfaces such as paper board etc.

2. TYPICAL PROPERTIES

Softening Point ()	:	130
Acid Value (mg KOH / g)	:	65
Color (Gardner)	:	6
Molecular weight (Mn)	:	550
(Mw/Mn)	:	1.58

3. SOLUBILITY

Toluene	:	S	Xylene	:	S
Ethyl Acetate	:	S	n-Hexane	:	S
Ethanol	:	I			

S : Soluble, I : Insoluble

**One gram of resin in a test tube was dissolved with 5ml of solvent, and then observed for its solubility

4. COMPATIBILITY

EVA	:	C	CR	:	C
NR	:	C	SBR	:	C
SIS	:	C	SBS	:	C
Acrylic Resin	:	C			

C : Compatible

Elastomer/Resin = 50 / 50 wt%

5. PROPERTY

Melt Viscosity (CPS)

@ 180	900
@ 200	200

Heat Color (Gardner, @ 180)

Initial	6
2 Hour Later	6 +
4 Hour Later	7 -
8 Hour Later	7 +

**Clouding Point with EVA #220 (Resin/EVA=50/50 wt%)
< 50**

6. EVA Adhesive Property

Formulation : EVA #220 / Resin / Microcrystalline Wax = 40 / 40 / 20 wt%

Softening Point : 85

Melt Viscosity(CPS, @180) : 7600

Heat Stability (@180 , Surface Change) : 96 Hours No Change

Peel Strength (kg/25mm) : PSTC-1 180 degree peel

1) Corrugated Paper Board / Aluminium

@ 5	:	0.73
@ 20	:	Partial Break
@ 35	:	Complete Break
@ 50	:	Partial Break

2) Polyethylene / Aluminium

@ 20	:	1.15
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**Heat Creep (min, @60 , 500 gram) : PSTC-7 25 mm x 25 mm
394**
