



# ARAKAWA TECHNICAL DATA

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**Standard specifications of Tamanol 803L**

20010328

Tamanol 803L is Rosin modified Phenolic resin which are designed as tackifier for adhesives.

Tamanol 803L is characterized its high heat stability and wide range compatibility.

## Specifications

### TAMANOL 803L

Color (Gardner)	:	7 max.
Softening point (R&B, °C)	:	145 - 160
Acid value	:	45 - 60

## Packing

25 kg net in paper bag

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TAMANOL 901

2005/7/13

## 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. SPECIFICATIONS

Color (Gardner)	:	9 max
Acid value (mg KOH/g)	:	60-90
Softening point (oC)	:	120-135

## 3. TYPICAL PROPERTIES

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

#### 4. 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**

#### 5. COMPATIBILITY

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

C : Compatible

Elastomer/Resin = 50 / 50 wt%

#### 6. PROPERTY

Melt Viscosity (CPS)

@ 180 oC                      900

@ 200 oC                      200

Heat Color (Gardner, @ 180 oC)

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 oC

**7. EVA Adhesive Property**

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

**Softening Point : 85 oC**

**Melt Viscosity(CPS, @180 oC) : 7600**

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

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

**1) Corrugated Paper Board / Aluminum**

<b>@ 5 oC</b>	<b>:</b>	<b>0.73</b>
<b>@ 20 oC</b>	<b>:</b>	<b>Partial Break</b>
<b>@ 35 oC</b>	<b>:</b>	<b>Complete Break</b>
<b>@ 50 oC</b>	<b>:</b>	<b>Partial Break</b>

**2) Polyethylene / Aluminium**

<b>@ 20 oC</b>	<b>:</b>	<b>1.15</b>
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**Heat Creep (min, @60 oC, 500 gram) : PSTC-7 25 mm x 25 mm**

**394**

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