

Technical Data Sheet



CHONSiS Inc.

CHONSiS SH9400 Adhesive

1. INTRODUCTION

The SH9400 is a solvent based silicone pressure sensitive adhesive(PSA) that is designated well to provide high adhesion and reliable bonding performance good enough to guarantee confident durability with long term stability. This product can be rightly cured by proper thermal energy good to initiate & generate the activation of Platinum based catalyst and very effective to make low VOC and residue-free type adhesive tape products.

2. APPLICATIONS

Single /double coated functional adhesive tapes specially designated as protective, assembly and bonding applications requiring high & strong adhesion and confident cohesion performance with long term stability against severe environmental conditions as high/ low temperature, humidity and extreme sunlight exposure

3. FEATURES

Additional reaction type Silicone PSA with fast curing speed, ultimate phase stability without any appearance changes as yellowing, whitening, oozing phenomena and low migration without any adhesive residues

4. TYPICAL PROPERTIES

TEST	UNIT	RESULT
Appearance		Clear, Colorless
Nonvolatile(solid) content	%	55 ± 5
Viscosity (25℃)	cPs	5,000 ± 2,000
Peel adhesion*	gf/25mm	1,200~1,400
Specific Gravity (@25℃)	g/cm ³	0.97
Diluents		Toluene

*Peel adhesion : 180o Peel @ normal, PSA thickness 25 μ m at PET film 50 μ m, SUS304. (Cure condition : 150℃ x 2min)

5. DESCRIPTION

CHONSiS SH9400 is a mixture of toluene, Si resins and reactive ingredients that is good to get high adhesion and bonding performance. It can be applied in single/ double coated type industrial bonding tapes requiring for highly confident adhesion and cohesion performance good enough to guarantee long term stability. It also works well to adhere on LSE(low surface energy) substrates such as polyolefin and anti-contaminated coating layer.

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6. HOW TO USE

This product can be blended and used as a mixture with other Si based PSA together to control adhesion performance and normally is used with 1~2parts of cross-linker, 1~2parts of adhesion promoter and 1~5parts of Pt-catalyst.

Before the main compounding with Pt-catalyst, Si adhesive resin, cross-linker and adhesion promoter must be mixed uniformly well. During the main mixing, frictional heat by agitation should be minimized.

This product can be further diluted in compatible solvent like Toluene, Methyl Ethyl Ketone, Xylene or other polar organic solvents.

The typical curing temperature range of this product is 100℃ to 180℃. But normally recommended curing condition is 2~3 minutes at 150℃ varied by coating thickness and total amount of curing agents.

7. POT LIFE

When it opened, mixed with catalyst and exposed to normal atmosphere condition, it has to be used promptly within 6~8 hours varied by catalyst amount and working temperature. If it is unintentionally exposed to sun light or applied to temperature higher than 30℃, it can't be used. (Yellowing, whitening and partial gellation are one of representative side reaction phenomena.) Reuse of the product contacted to air is not recommended.

8. HANDLING PRECAUTIONS

ATTENTION: Container will have vapor and/or product residues when it is empty. All hazard precautions on label must be observed when handling empty containers.

DO NOT CUT OR WELD CONTAINERS. DO NOT REUSE CONTAINERS.

Product safety information(as MSDS) required for safe use is not included. Before handling, please read product and safety data sheets and container labels for safe use, physical and health hazard information. If you need Material Safety Data Sheet or other handling information, Please contact to CHONSiS Inc.

9. SHELF LIFE AND STORAGE

When it is stored in the original unopened container at RT(below 25℃) & mild humidity(<60%) condition, the general shelf life is 12 months from the date of production.

10. PACKAGING INFORMATION

Normal packaging size of the product : 18kg/pail and 180kg/drum

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