Technical Data Sheet

CHONSiS Inc.

CHONSiS CH17EV2 Acrylic Hot Melt Resin

1. INTRODUCTION

The CH17EV2 is a solvent-free thermoplastic acrylic copolymer designated for a hot melt type pressure sensitive adhesive specialized to provide an outstanding tack and wetting property good to gurantee an excellent instant bonding and good repositionability for easy handling and rework. It is wrapped by polyethylene film as a pouch form package with constant amount and very convenient to control input amount and also good to prevent contamination from most storage and working environmental conditions.

2. APPLICATIONS

Applications requiring excellent tack, wetting on most substrate surfaces, good initial adhesion and no residue on applied surface good to gaurantee repositionability. Interior & exterior panel/ frame bonding on appliance, construction, display, mobile, transportation and generals.

3. FEATURES

Shows good flexibility, elasticity and clearance. Fully melted at recommended temeprature range without any agglormaration/ resin mass.

4. TYPICAL PROPERTIES

TEST	UNIT	RESULT
Appearance	-	Clear, Colorless
Average Molecular Weight		770,000
Solid Content	%	>99.5%
Melt Viscosity*(180°C)	cps	5,000±500
Peel adhesion*(180 degree; normal)	gf/25mm	1,500

*Melt Viscosity : At 180°C fully melted status, measured by viscometer(Brookfield, #10 spindle, speed 10rpm).

**Peel adhesion : PSA thickness 50㎛ at PET film 50㎛, SUS304. After the roll down, 24h dwelling. 300mm/min speed.

5. DESCRIPTION

This product is a film wrapped viscoelastic resin made with 2 kinds of acrylate monomers and contains some carboxylic acids. It is especially designed to get excellent adhesion on most substrates and superior cohesion performance without yellowing phenomena and other physical/ chemcial negative changes. For right application, full melting and good flowability without any defecct/ void are mandatory. After the enough cooling, it is naturally cured as one of general thermoplastics. Because it is completely converted into polymer with certain level of high molecular weight, it doesn't contain any monomers, organic solvent and others that can be the cause of

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VOCs. It also shows not only good bonding performance but also fine clarity and outstanding durability. The CH17EV2 shall be applied as anadhesive transfer tapes on functional laminating tapes, single coated adhesive tapes and skin adhesives on double coated tapes. It can be also used as a versatile filling adhesive with good bonding assembly and stress relaxation property.

6. HOW TO USE

Full melting without any agglomeration and resin mass is very important aspect for this product for right using. (If the applied temperature is excessively high and applied time is too long, the resin shall be damaged and easily degradable. On the other hand, if the temperature is relatively low and the residence time is too short, the resin is not good to get moderate flowability mostly needed to be applied as hot melt adhesive. To get rightly prepared product without any unreated part that can be the cause of VOCs, during the melting and extrusion process througtout T-die, fume suction and ventilation are recommended.

7. POT LIFE

When the wrapped film is sealed well without any leakage and stored at nrmally recommended storage condition, it can be used for 1 year.(If it is stored at cold, dark room without sunlight, the period shall be increased.)
If the film is damaged and the content is exposed to normal atmosphere with light irradiation, it must be checked whether there is some change as yellowing, whitening and other significant appearane change. If yes, please dispose it! (Agglomeration, resin mass and partial gellation during melting and followed manufacturing process are one of representative phenomena of unnecessary side reaction.)

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°C) & mild humiduty(below 60%) condition without sun, UV light and others, the general shelf life is 12 months from the date of production.

10. PACKAGING INFORMATION

Normal packaging size of the product : 20kg/box, 200kg/drum and 1000kg/box container

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