

CHONSiS ATU6910 Resin

1. INTRODUCTION

The ATU6910 is a thermoplastic acrylic copolymer that has a low molecular weight, high softening point and good compatibility with conventional acrylic monomers as MA, EA, BA, 2-EHA, MMA & AA and most organic solvent as Acetone, Heptane, EA, Petroleum Ether, Toluene, Xylene & MEK. It shows an outstanding resistance to oxidation and to discoloration caused by sunlight, heat and other negative aging factors under critical applied conditions. Because it contains high amount of hydrophobic ingredients and carboxylic acid groups, it is quite appropriate to stimulate main adhesive resin to get higher initial/ normal adhesion strength with good tack and fine wetting performance on commonly used substrates including LSE(low surface energy) materials as Polyolefin.

2. APPLICATIONS

Functional Additives for Bulk UV curable, Hot melt, Solvent based acrylic adhesives, Non-acrylic, solvent based PSA tapes, Epoxy based bonding sheet, Thermoplastic polymer resin for film.

3. FEATURES

Low molecular weight, High softening point, Wide solubility and compatibility with most acrylic monomers and polar organic solvents, Good resistance to oxidation and discoloration, Remarkable wetting and instant bonding build-up on LSE substrates and high amount of acid functionality.

4. TYPICAL PROPERTIES

TEST	UNIT	RESULT
Appearance	-	Clear, Transparent
Glass Transition Temperature(T_g)	°C	105
Average Molecular Weight ^{a)}		<7,000
Density(@ 25°C)	g/cm ³	1.05

a) Average Molecular Weight: Measured by GPC (Standard master curve by Polystyrene solved in Tetrahydro Furan)

5. DESCRIPTION

This product is a transparent, low Mw acrylic resin synthesized by copolymerization of mainly contented hydrophobic type acrylate monomers and contains certain amount of carboxylic acids. It is very effective to enhance an instant tack and wetting property of finished product good enough to promote initial/ normal adhesion increase with excellent tack. It doesn't show any yellowing, whitening and other physical/ chemical changes induced by resin degradation against most environmental conditions. Its wide solubility and compatibility with general organic liquid medias including conventional liquid acrylate monomer as MA, BA, 2-EHA, AA and AA are another attractiveness of this product.

6. Compatibility and Solubility

The ATU6910 is quite well compatible with most polymeric resins for adhesives and PSA, waxes, plasticizers, natural and synthetic rubbers, chlorinated rubber, EVA copolymers, SBS and SIS block copolymers, acrylic resins, general polyamide resins and polyurethane compounds.

It shows good solubility in esters; ketones; higher alcohols; glycol ethers; aliphatic/ aromatic; chlorinated hydrocarbons and in most acrylate monomers, bulk prepolymerized acrylic syrup.

This product is insoluble in methanol, ethanol, IPA and water.

7. HANDLING PRECAUTIONS

ATTENTION: All hazard precautions on label must be observed when handling this product.

DO NOT TOUCH THE CONTENTS OF POUCH WITHOUT PERSONAL PROTECTIVE EQUIPMENTS.

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.

8. STORAGE

When the contents of film pouch is not opened to the air and it is stored in the original box or container at RT(below 27°C) & mild humidity(below 60%) condition without sun, UV light exposure and others, the general shelf life of product itself is 18 months from the date of production.

9. PACKAGING INFORMATION

Normal packaging size of the product : 25kg/ Box(M), 200kg/ Paper Drum(L) & 1,000kg/ Ton bag