Answers for waterborne coatings & adhesives

思沃®化学
SiwoChem

SiwoPUD®-U-678

Characteristics: It is aqueous anionic dispersions of a high molecular weight polyurethane based on polycarbonate. It is raw material for formulation of heat-activated adhesives for use in, for example, the furniture, automotive, and construction industries.

Supplied as: 50% in water

Physical characteristics:

Appearance	Milky white
Non-volatile constituent	48-50%
PH value	6.0 – 9.0
Viscosity	≤800 mPa·s
Density(d_4^{20})	1.05
NMP, NEP, DMAC etc.	Free
Minimum film-forming temperature	5℃
Minimum activation temperature	70-80℃
Yellowing resistance	Non- yellowing

Storage: The dispersion should be stored in a frost-free place in tightly sealed containers. It contains no preservative.

Application: Anionic high-molecular-weight polyurethane dispersion, a raw material for heat-activated polyurethane adhesives. It features a relatively high heat activation temperature, good anti-blocking properties and initial tack, and high bond strength. It provides excellent adhesion to most synthetic and natural materials. Compared with our U-658 and U-674, it offers better hydrolysis resistance and aging resistance. Suitable for heat-activated bonding of fabrics, leather, packaging materials, and other substrates. The addition of 2-5% water-dispersible polyisocyanate curing agent (e.g., EC-600 produced by our company) can significantly enhance its high-temperature bonding performance. For heat-activated bonding applications, U-678 is recommended at 80-90℃ or higher, to ensure full activation of the dried adhesive layer. The actual temperature required for a specific application depends on the applied pressure, dwell time, and the substrates being bonded. Product stored for more than 12 months can be used only after passing relevant tests.They exhibit good compatibility with other waterborne resins, including slightly acidic resins and substances.

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