



Prepolymer HC-8309A/HC-8302B

1.Character: Low hardness products. The product is a combination of A and B double liquid polyurethane elastomer. The gel produced with the combination has good transparency and resilience.

2.Applications: It is mainly used to produce transparent memory rebound pillow, cool gel pad, mouse pad gel, transparent gel for shoes, transparent shock absorption gel for electric tools and toy balls.

3.Product Index:

Item	Unit	Component A	Component B	Testing Standard
Appearance (20°C)	—	Colorless transparent liquid	Colorless transparent liquid	Internal standards
NCO%	%	-	2.8±0.2	HG/T 2409
Viscosity (25°C)	mPa·s	600±200	2000±500	GB/T 12009.3

This prepolymer should be stored in a low temperature and dry place to avoid moisture, high temperature, etc.

The shelf life of unopened prepolymer is six months.

4. Casting Processing Way:

1. The HC-8309A/HC-8302B composite produced by our company should use a low-pressure polyurethane casting machine.

2. Shake up the raw materials of components A and B, and add them into the charging tanks of machines A and B of the casting machine respectively. If the ambient temperature is low, preheat materials A and B in advance, so that they can be easily added into the charging tanks of machines.

3. In order to prevent tiny bubbles during pouring, please vacuum the raw materials in A and B charging tanks for about 30 minutes.

4. Processing process control:

HC-8309A/HC-8302B	Unit	Component A	Component B
Mix prepolymers temp.	°C	25±5	25±5
Recommended ratio	-	100:25~30	
Casting mold temp.	°C	70±5	
Pot life	Minute	10~15*	

*:The curing time can be adjusted by changing the amount of catalyst added to component A.



5. Notes:

1. Store the prepolymer to avoid moisture, high temperature and light protection; please use it up as soon as possible after opening the prepolymer, and seal it immediately after use; if possible, please fill it with N₂ and seal it;
2. The raw materials have a slight pungent smell, the environment should be as ventilated as possible, and the operation should be well protected to avoid scattering or pollution and inhalation;
3. If color paste or other materials are to be added, they can be added to component A, and the water content of the additive shall be kept below 0.1%, and the compatibility of the additive shall be considered.

All technical data and using suggestions provided by our company, and typical values based on our company's experimental conditions and working environment, non- product guidelines. Since we don't well know the users' processing control and the application of finished parts, so it is responsibility and more necessary for users to test the processing way and properties of finished parts, so that to verify whether it is suitable for the user's own process and purpose.