



Prepolymer HC-6995A/B

1.Character: Mold free rotational casting elastomer, rapid prototyping, no mold required, which can be processed and used after curing for 30 minutes, and has very high wear resistance and service life.

2.Applications: It is widely used in equipment such as steel, metallurgy, papermaking, products, printing, dyeing, and mining, rubber rollers, etc.

3. Typical Properties:

Name \ Item	Appearance (25°C)	Viscosity cps(40°C)	NCO (NCO%)	specific gravity (g/cm ³)	Shelf life (month)
HC-6995A	Yellow brown liquid	800-1200	-	1.04	6
HC-6995B	Light yellow transparent liquid	2000-3500	12.8-13.3	1.12	6

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:

Item	Unit	Component A	Component B
Pre-heating temp.	°C	45±5	65±5
Hardness	shore	95	
Recommended ratio	-	60:100	
Roller temp.	°C	25	
Pot life	Second	8-12	
Post cure time	Day	3	

Pre-heating prepolymer and adding catalyst can shorten cure time, please add catalyst in component A.

5. Physical indicators

Item	Unit	Testing Standard	HC-8780A/B
Hardness	Shore A	GB/T 531.1-2008	95
100%Modulus	MPa	GB/T 528-2009	9.8
300%Modulus	MPa	GB/T 528-2009	17.9
Strength at break	MPa	GB/T 528-2009	46.8
Elongation at break	%	GB/T 528-2009	420



Angle Tear Strength	kN/m	GB/T 529-2008	85
DIN Abrasion	mm ³	GB/T 9867-2008	42
Resilience (Impact rebound)	%	GB/T 1681-2009	45

6. Notes:

- 1) The allocation ratio of A/B groups should be as accurate as possible, and the error of A/B should be less than 1%.
- 2) The temperature can affect the usage time and demolding time, please refer to the process.
- 3) Prepolymer should be stored at low temperature and dry place, avoid moisture and water when using.
- 4) Use as soon as possible after opening the drum. Fill in Nitrogen to seal if it can not be used up.
- 5) Shelf life is 6 months for unopened drum.
- 6) If color paste or other additives are needed, they can be added in component A, but be sure, moisture content of the additives should be under 0.1%.