



## General Purpose Silicone Adhesive Sealant

**TN602 ( 褐色 )****DESCRIPTION**

TN602 is a one-component silicone adhesive, which cures on exposure to atmospheric moisture at room temperature to form elastic silicone rubber. TN602 has superior corrosion-free adhesion to metals, including copper, plastics, ceramics, glass, etc without the use of primers. These surfaces includes plastics, metals, glass, ceramic and silicone rubbers. After curing, like general silicone rubbers, possesses excellent heat, cold, weather resistance. As well as excellent electrical properties for use as sealant for electrical communications machinery, automotive parts, medical care product.

**KEY FEATURES**

- ▶ Primerless adhesion to many substrates
- ▶ Absolutely no corrosion
- ▶ Excellent resistance to weathering, ultra violet radiation, Vibration, moisture, ozone, temperature extreme and airborne pollutants.
- ▶ Excellent heat and cold resistance

**APPLICATIONS**

- ▶ Adheres to a wide range of electronic materials
- ▶ Water proof sealant as well as sealing for electrical and communication machinery and for more good to printed circuit boards, etc
- ▶ Other parts requiring heat and cold proof properties and sealant of machinery and electrical insulating, adhesive sealant for pu leather with ceramic, automobile, ship, oil leakage preventive sealant for automobile engine parts.

**TYPICAL PROPERTY DATA**

(JIS K 6249)

BOFORE CURING	
Appearance	Non flowing paste
Colours	Brown
Cure Type	Oxime
Specific Gravity at 25°C (g/ml) (standards ISO R 1183, DIN 53479, NMRPS 703)	1.10
Flowability (mm*mm/10g)	-
Viscosity (cps)	-

CURING	
Tack-free Time (min) (23°C, 50%)	3
Cured thickness after 48h (mm) (23°C, 50%)	4.45





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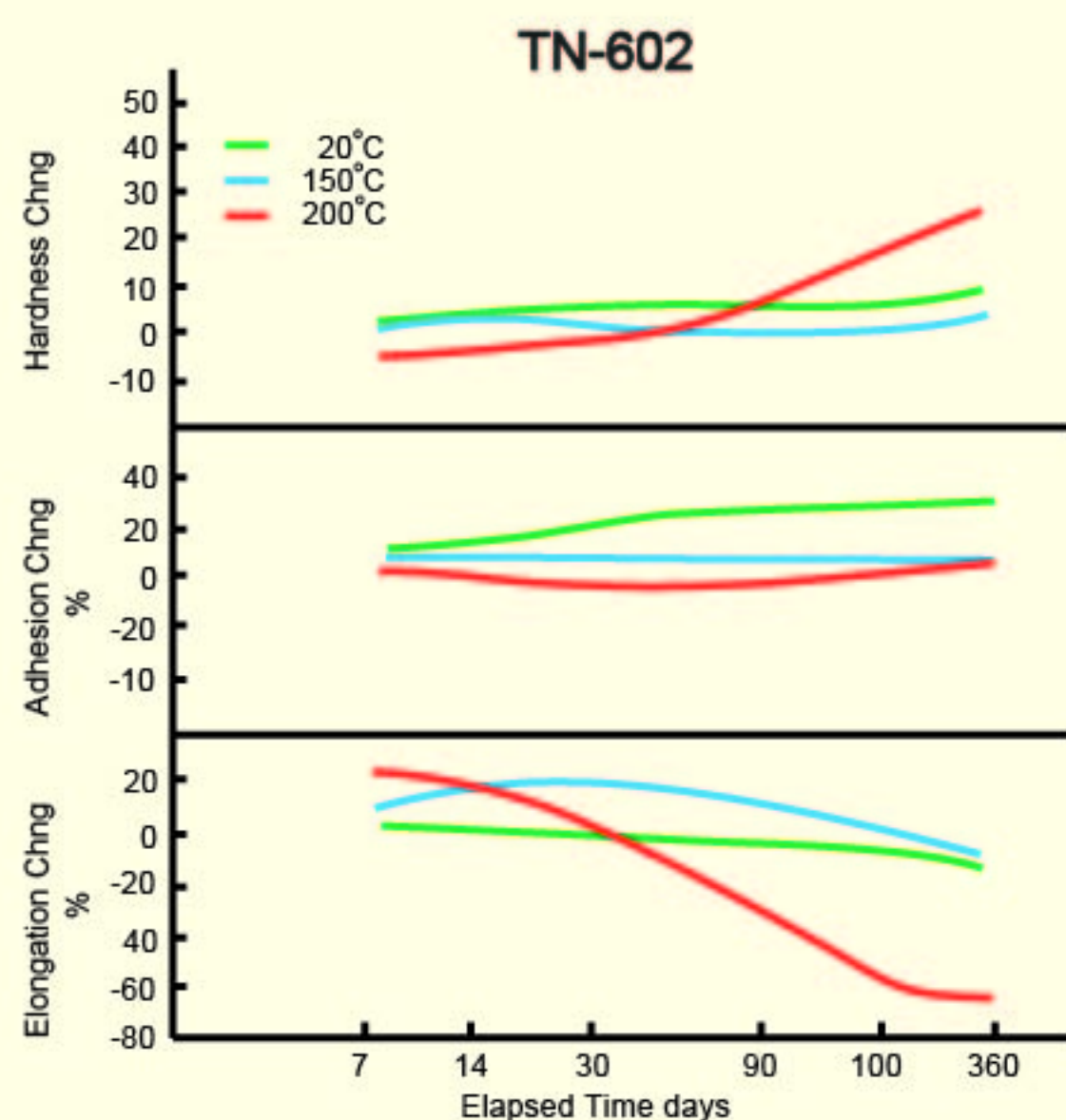
CURED PRODUCT	
Specific Gravity at 25°C (g/ml) (standards ISO2781,ASTM D297,BS 903 Part A1)	1.10
Shore A hardness (Standards ISO R868,DIN 53505,ASTM D 2240, BS 903 Part A7,NFT 46003,NMRPS 471)	30
Tensile Strength (kg.f/cm <sup>2</sup> ) (Standards ISO R37(H2),DIN 53504,ASTM D 412, BS903 Part A2,NFT 46002(H2),NMRPS 470)	19.5
Elongtion at break (%) (Standards ISO R37(H2),DIN 53504,ASTM D 412, BS903 Part A2,NFT 46002(H2),NMRPS 470)	501.3
Dielectric strength (KV/mm) (standards NF C 26225,ASTM D 419,IEC 243)	23
Dielectric constant at 1 MHZ (standards NF C 26230,ASTM D 150,IEC 250)	3.6
Power factor at 1 KHZ (standards NF C 26250,ASTM D 150,IEC 250)	1.98x10 <sup>-3</sup>
Volume resistivity,Ω.cm (standards NF C 26215,ASTM D 257,IEC 93)	1x10 <sup>15</sup>

\* Testing is performed in accordance with current EST material test methods, laboratory

\* Typical property data values should not be use as specifications

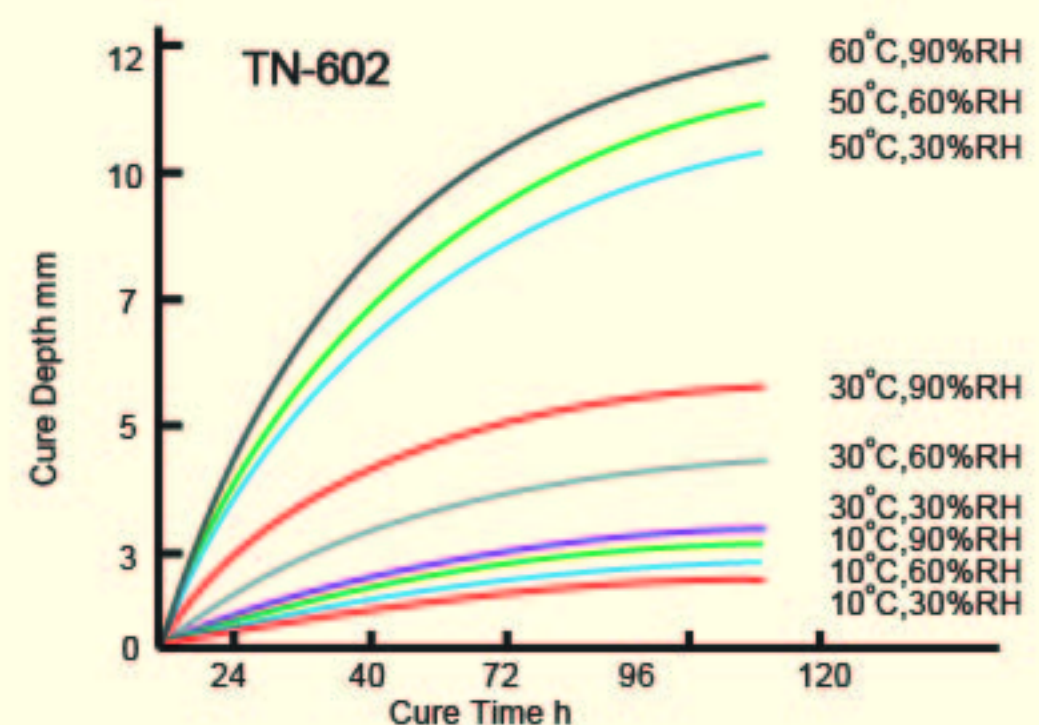
## Heat Resistance:1 Part condensation Cure

### Change in Physical Properties with Heat Exposure



## Curing Properties: 1 Part condensation Cure

One part condensation cure silicone adhesive and sealants cure when exposed to atmospheric moisture. The cure process begins from the outer surface, and therefore time is required for deep section cure. The cure time is affected by the reaction mechanism and viscosity. At 25°C, 50%RH, it generally requires 10-60 minutes for the surface to become tack free. allowing the workpiece to proceed to the next process, Sufficient adhesion is achieved after 5-15 hours, allowing the workpiece to be moved. Elasticity is achieved after 1-3 days of cure time, and full material properties such as electronic performance is achieved after 7 days.



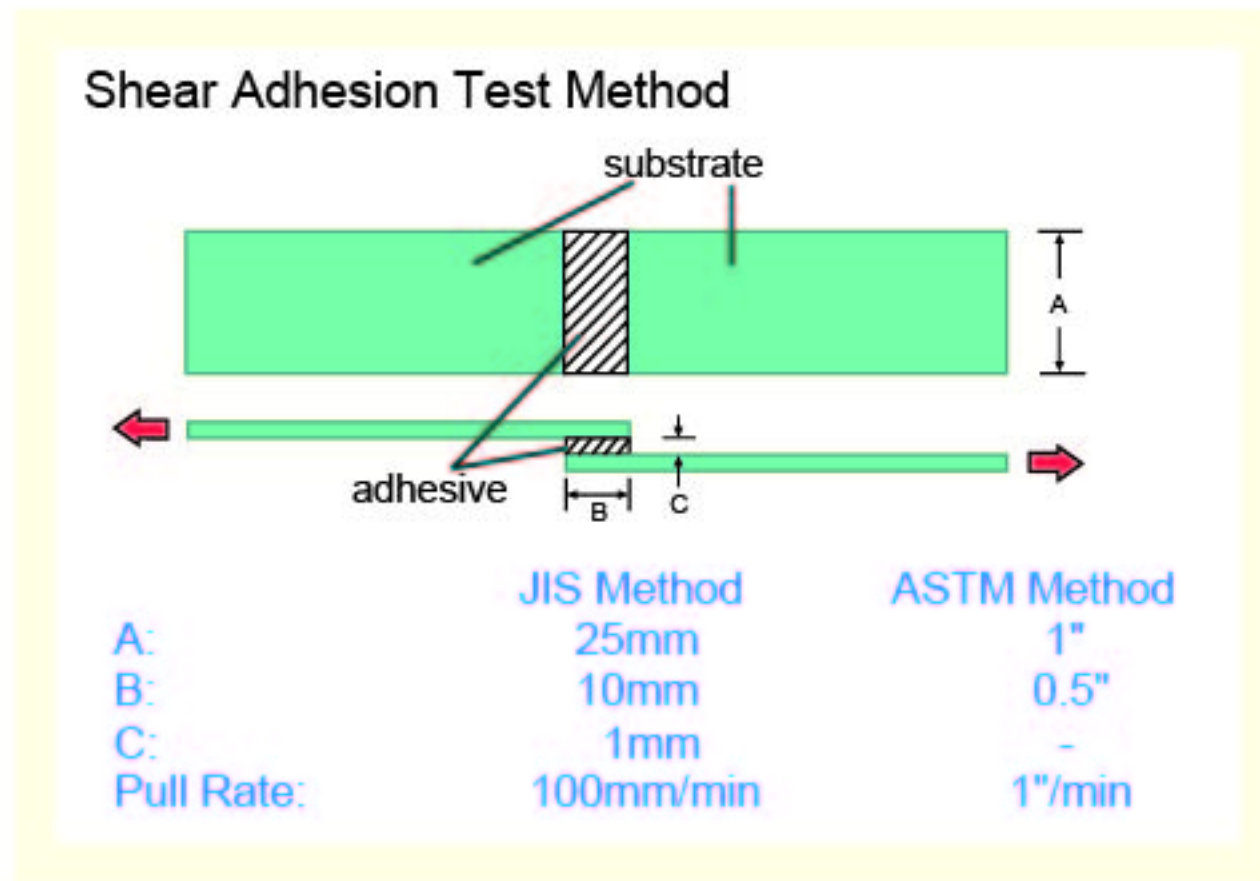
Cure Time Test Method: liquid silicone is inserted in a glass tube with an internal diameter of 10mm, and measurements of the cure length are taken at specific intervals.



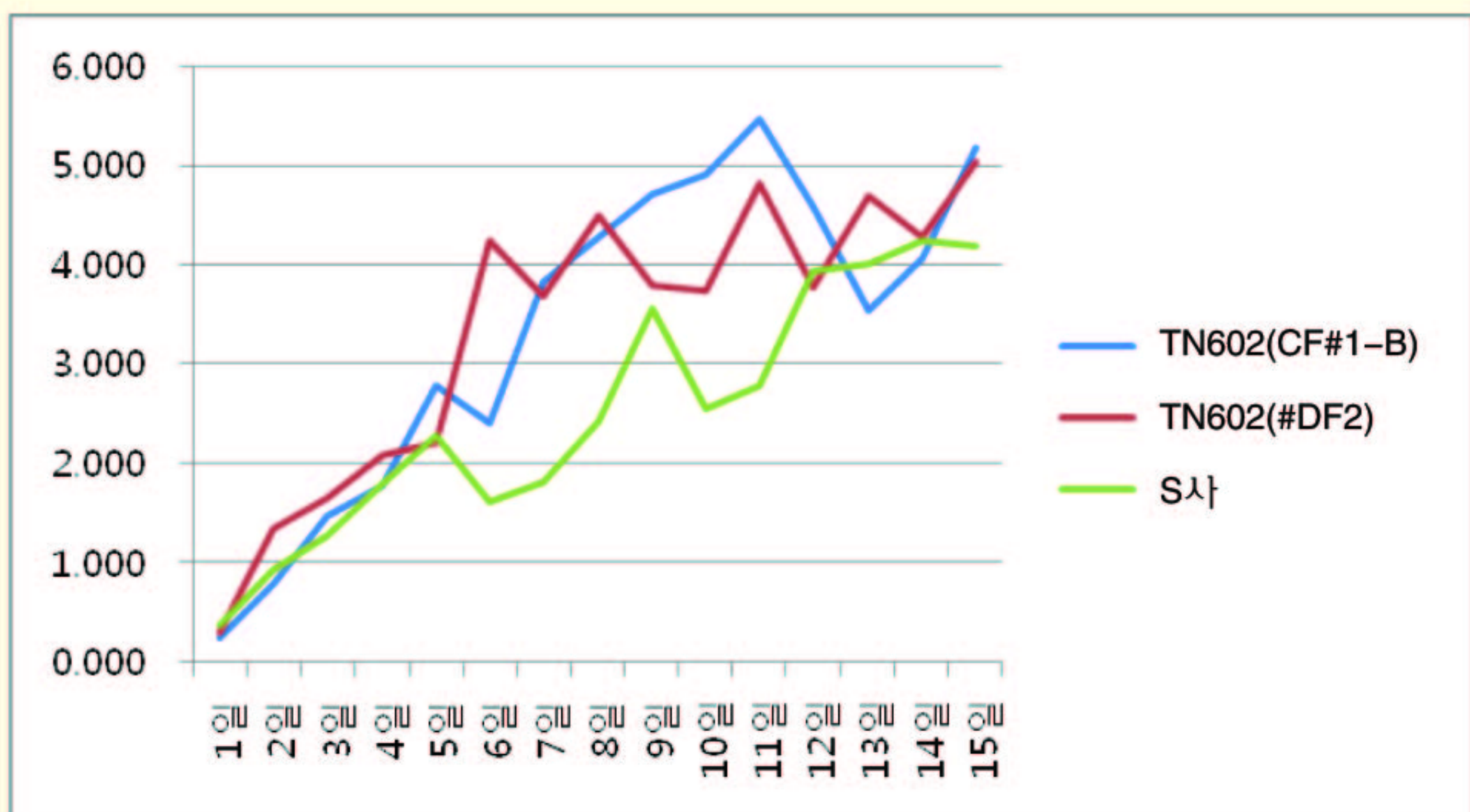
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## TN602 전단응력 비교

## 응 용 사 례



## 시간에 따른 전단응력 변화



-상기의 측정값은 접착력의 상태에 따라 전단응력의 값이 많이 변화함

-초기는 S사가 전단응력값이 약간 높게 나오나 5일 이후부터는 TN602의 전단응력값이 높게 나옴





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## SPECIFICATION

Typical product data values should not be used as specification. Assistance and specification are available by contacting YanTai E.S.T. silicone technology co.,LTD

## HANDLING AND SAFETY

When solvent are used, proper safety precautions must be considered toxic and must be used only in well ventilated areas.

## USABLE LIFE AND STORAGE

When stored at or below 25°C (77°F) in the original unopened containers, this product has a usable life of 12 months from the date of manufacture.

CAUTION!	HANDLING PRECAUTIONS	FIRST AID MEASURES
<p>1.FOR INDUSTRIAL USE ONLY</p> <p>2.This product is neither terted nor representde as suitable for medical or pharmaceutical uses.</p> <p>3.Do not use this product for other than its intended use,or user shall bear responsibility for any problems.</p>	<p>1.Wear suitable protective goggles, respirator and gloves.</p> <p>2.Use only where an adequate ventilation system is avallable to sxhaust poisonous gases.</p> <p>3.After handling,wash face and hands very thoroughly.</p> <p>4.Keep out of reach of children.</p> <p>5.Store in a cool,dark and dry place.</p>	<p>1.Inhalation:Remove to fresh air and get medical attention immediately.</p> <p>2.Eye contact:Immediately flush eyes with plenty of water for at lest 15minutes.Get medical attention immediately.</p> <p>3.Skin contact:Immediately flush skin with plenty of soop and water for at least15minutes.Get medical attention immediatly.</p> <p>4.Ingestion:Induce vomiting and get medical attention immediately.</p> <p>5.See material safety data sheet.</p>