

Primary Fiber Coating KG100-1D

Product Properties

Fast curing speed, low modulus, good elongation

Characteristics

Liquid Coating

Typical Value

| | |
|-------------------------|-----------|
| Viscosity (25°C) | 5400 cps |
| Refractive Index (23°C) | 1.473 |
| Density (23°C) | 1.05 kg/l |

Cured Film

Typical Value

| | |
|---|------------------------|
| By DMA | |
| Temperature when E'=1000Mpa | -55°C |
| Temperature when E'=100Mpa | -47°C |
| Modulus at 2.5% strain | 1.00MPa |
| Elongation | 120% |
| Tensile strength | 0.6 MPa |
| Curing speed (at 95% of relative curing degree) | 0.10 J/cm ² |
| Shrinkage upon curing | 1.70% |
| Refractive Index (23°C) | 1.477 |
| Weight loss | |
| 8 weeks at 85°C | -3.40% |
| 8 weeks at 125°C | -4.36% |
| Adhesion to glass (23°C) | 1.00N |

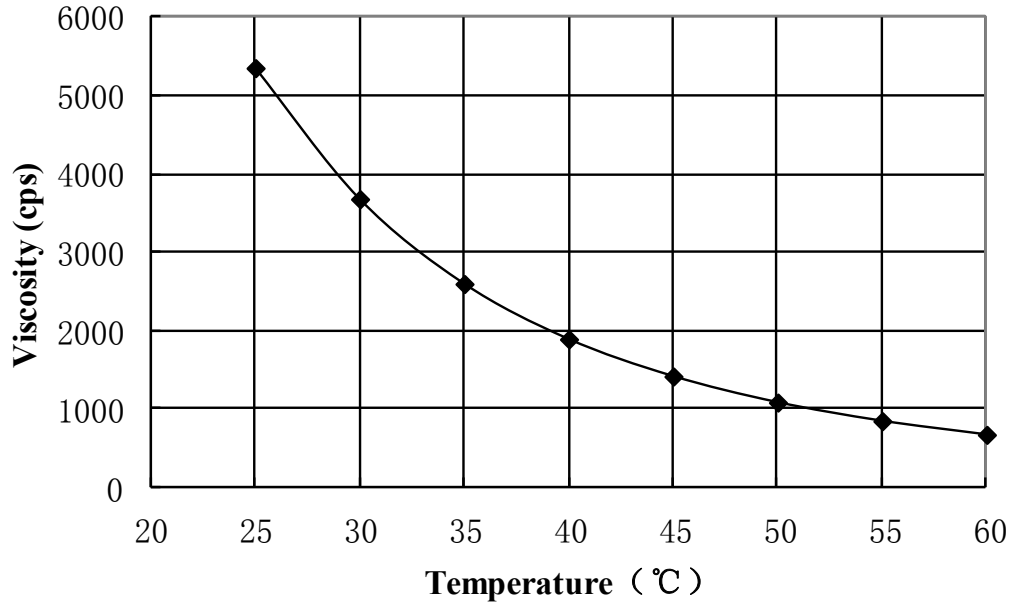
Storage Conditions

KG coatings is available in 10kg or 1000kg plastic bottle which prevent exposure of the content to UV light. It is recommended that KG coatings be stored in a dry place in unopened, undamaged, original containers at temperatures between 0°C and 35°C. Storage or shipment in cold conditions may result in a phase separation which is reversible and is corrected by heating for 24 hours at 40°C .

Shelf Life

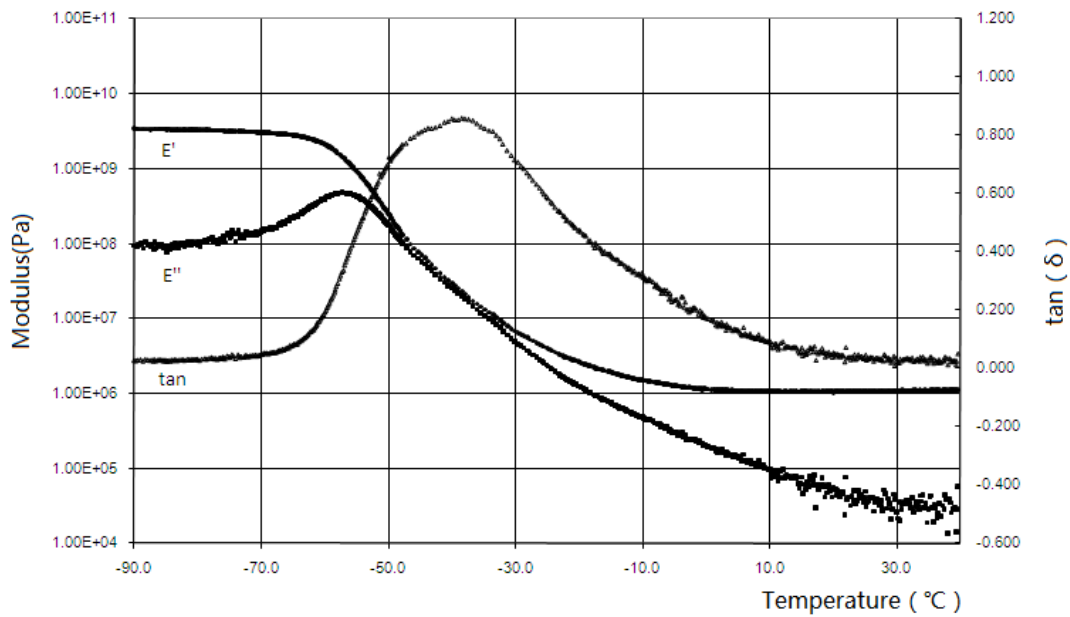
KG100-1D has a recommended shelf life of 12 months from the date of manufacture, provided that the above stated storage conditions are properly maintained.

Viscosity vs. Temperature



1 cps = 1 mPa · s

Dynamic Properties vs Temperature



The data contained herein are based on Phichem lab test result and are believed to be reliable. Phichem recommends that the users take test to determine the suitability of a product in particular processing or application/use.