NYSTEIN Thermal Gel Flextein® MG1000

Technical Data Sheet

Product Description:

Flextein[®] MG1000 is a two-component thermally conductive interface material with high thermal conductivity for room temperature and heat curing. It has a very low viscosity for easy mixing and extrusion, and a tightly controlled maximum particle size of less than 150µm, which allows easy penetration into gaps or holes and lowers the thermal resistance, resulting in efficient heat dissipation.

After curing, Flextein[®] MG1000 remains a low modulus elastomer with excellent electrical properties, water and moisture resistance, aging resistance, and high and low temperature resistance (-40 to 150 ° C). Unlike structural adhesives, Flextein[®] MG1000 has weak bonding properties after curing, which improves surface contact and enables easy cleaning/reworking.

Features & Benefits:

- Thermal conductivity 10 W/m·K
- Minimum filling gap 0.15 mm
- low viscosity, easy to extrude
- good electrical insulation, temperature and weather resistance



Typical Property Data:

Property	Unit	Parameter	Test Method
Appearance		Part A: Off-white	Visual
		Part B : Blue-Gray	
Mix Ratio		1:1	—
Viscosity	Pa.s	400~500	ASTM D2196
operating time	Min	60 (@25℃)	Nystein
Cure Schedule	h	0.5 (@100℃)	Nystein
		6 (@25°C)	
Thermal Conductivity	W/m ⋅K	10	ISO 22007-2
Hardness	Shore OO	50	ASTM D2240
Density	g/cm ³	3.3	ASTM D792
BLT	mm	0.15	Nystein
Dielectric Strength	kV/mm	≥6.0	ASTM D149
Volume Resistivity	Ω·cm	≥1.0 x10 ¹²	ASTM D257
Service Temp	°C	-40 to 150	Nystein
Flame Rating		V-0	94 UL
RoHS		Yes	Nystein



Typical Application:

- Consumer electronics, communication equipment
- OBC, BMS, ECU, etc.
- 5G base station
- Military electronics

Configuration Available:

- 50cc, 400cc syringe
- 40kg group: component A 20kg/drum,component B 20kg/drumNatural tack on one or both side option
- Custom combination

Storage conditions:

- Sealed at room temperature away from light, and stored in a dry place.
- Best Storage conditions: Temperature: 25°C (±3), Humidity: 50% (±10), can be stored for 6 months.
- The materials taken out after opening may be contaminated during use, so please do notmix contaminated products with unopened products.Nystein assumes no responsibily for contaminated products or conditions other than the required storage conditions.
- For additional information, please contact your appropriate sales, technical support, orcustomer service representative promptly.

Declare

The information provided in this Technical Data Sheet (TDS), including product use and application recommendations, is based on our knowledge and experience with Nystein China products. The data contained in this TDS is for informational purposes only and is believed to be reliable. To obtain official product specifications for a specific product end use, please contact the sales, Application Engineer or customer service person with whom you are in contact.

We are not responsible for results obtained by others using methods beyond our control. This product may have a variety of applications and different operating conditions in your environment that are beyond our control. Therefore, Nystein China assumes no responsibility for the suitability of our products for the processes and conditions under which you will use them and for the intended applications and results. We strongly recommend that you conduct tests to confirm the suitability of our products prior to their use.

This product is protected by one or more of Nystein China Chinese patents or patent applications.

