United Adhesives
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ThermoFill TF2620

High Thermally Conductive & High Purity Interface Filling Material

Typical Properties			
Property	**Unit**	**Value**	**Test Method**
Color / Component A		White	Visual
Color / Component B		Grey	Visual
Mixing Ratio	By volume or weight	1:1	
Density (as mixed)	Gram /cc	2.9	ASTM D792
Viscosity as Mixed at 25°C	Pa.s	210	ASTM D2196
Property as Cured			
Color		Light Grey	Visual
Hardness	Shore A	15	ASTM D2240
Thermal Conductivity	W/m-K	2.3	ASTM D5470
Heat Capacity at 25°C	J/g-K	1.0	ASTM D1269
Dielectric Constant	@1000Hz	4	ASTM D150
Dielectric Strength	Volt/mil AC	> 400	ASTM D149
Volume Resistivity	Ohm-cm	> 10E+14	ASTM D257
Temperature Usage	℃	-80 to 200	TGA
Cure Profile			
Cure at 25°C	Min	60	DSC
Cure at 125°C	Min	15	DSC
Pot Life at 25°C	Min	10	Viscosity double
Cure out gassing	Weight %	< 0.1%	TGA

These figures are only intended as a guide and should not be used in preparing specifications.

Characteristics

TF2620 is a very high thermally conductive interface gap filling material. It is a high purity, non-slump, addition-curing, two-component silicone that cures at room temperature or elevated temperature to a very soft rubber with excellent thermal conductivity. The cured material provides very low thermal stress for thermal cycles. TF2620 is dispensable and printable.

Special Features and Benefits

- Very high thermal conductivity
- High purity for electrical insulation
- Fast cure profile and ambient curable
- Almost constant properties from –70 to 180 ℃
- Very low modulus for stress compliance
- Low bleeding, low volatile
- Pre-added 7 mil glass bead for thickness control

Typical Applications

- Automotive electronics
- Semiconductor and Telecommunications
- Between high heat power device and heat sink
- Thermally conductive vibration dampening
- Couple thermal stress while dissipating heat

TF2620 has a shelf life of at least 6 months when stored between 5 ℃ and 30 ℃ in the originally sealed container. After cure it forms a low modulus “gel-like” material that is not for structure bonding purpose. For bonding thermally conductive adhesive, please select the United Adhesives products TC2817 or TC2808.

Processing Instruction

Important! TF2620 is platinum cure system. Please keep applied surface clean and avoid using this material on any surface that contains sulfur, amine, phosphorous, organo-metals, acid, etc. because these contaminants could inhibit the cure of the material.

Only components A and B with the same lot number may be processed together! For the package in a container (not in a cartridge), to ensure homogeneity of the material, the components must be stirred thoroughly before they are removed or processed in order to uniformly disperse any fillers that might have settled during storage.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions can be obtained by contacting directly to United Adhesives Inc.

Storage

TF2620 has a shelf life of at least 6 months when stored between 5℃ and 30 ℃ in the originally sealed container. The 'Best use before end' date of each batch appears on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety information

Addition curing TF2620 silicone gel contains neither toxic nor corrosive substances that might require special handling precautions. General hygiene regulations should be observed. Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from United Adhesives Inc.