Dr.D. Müller AHLHORN

Precision components
made of flexible and rigid materials

Thermally conductive products

Thermiglue® TL 23022

Description:

Thermiglue® TL 23022 is a one-component thermally conductive gel with low deformation force and high thermal conductivity. Thermiglue® TL 23022 has a non-flowing, plastic consistency with low thermal resistance and excellent insulating properties. Due to its ability to automatically fill micro-gaps, Thermiglue® TL 23022 ensures an optimal contact surface between electronic components and cooling modules. In contrast to thermally conductive pastes, Thermiglue® TL 23022 shows no sedimentation or tendency to flow. Thermiglue® TL 23022 is suitable for screen printing, squeegee and dispensing applications with standard equipment and thus enables efficient and clean processing.

Properties:

Thermiglue® TL 23022 has high thermal conductivity, low thermal resistance, good wettability and insulating properties, no flowing or settling, reliably fills uneven surfaces, is soft and stress-free, compressible up to 0.1 mm, is compatible for automatic dosing technology and has an adjustable layer thickness.

Applications:

Thermiglue® TL 23022 is used in wireless electronic devices, communication and network technology, automotive electronics and control units, cooling modules and housings of power electronics, servers, processors, memory and graphics chips.

Colour:

pink

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info@mueller-ahlhorn.com | www.mueller-ahlhorn.com | Seat of the company: Ahlhorn
Managing Director: Dr. Michael Müller | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093
St.-Nr.: 68/207/07677 | Certified according to ISO 9001:2015 and ISO 14001:2015
UL recognised repacker E341377

- Production and distribution of electrical insulation materials, thermally conductive products, seals and technical films
- Production of stamped parts, blanks and moulded parts
- Cutting/assembly of films and adhesive tapes
- CNC machining, laser cutting and water jet cutting

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Forms of delivery: Thermiglue® TL 23022 is supplied in the sizes 30ml, 55ml and 300ml. Other containers on customer request.

Storage conditions: Thermiglue® TL 23022 should be stored at room temperature in dry rooms.

Properties	Test Method	Unit	Value
Color	Visual	-	pink
Specific gravity	ASTM D792	g/cm^3	3,37
Extrusion Rate	90psi@φ2.45 mm	g/min	≥40
Thickness after compression	-	mm	0,1
Weight loss	@150°C240H	%	≤0,3
Breakdown Voltage	ASTM D149	KV/mm	≥7
Volume resistivity	ASTM D257	Ω·cm	1×10^{13}
Continuous Use Temp	-	℃	-40 to +150
Thermal conductivity	ISO 22007-2	W/mK	3,0
Thermal impedance	ASTM D5470	$°Cin^2/W$	0,058

Trademark information: Thermiglue® is a registered trademark of Dr Dietrich Müller GmbH, Germany.

Please note: The information in this technical data sheet is based on our current knowledge and experience. Due to the wide range of possible influences during application, it does not exempt the processor and user from carrying out their own tests and trials. A legally binding guarantee of certain properties or suitability for a specific application cannot be derived from our information. Depending on the individual case, we recommend consulting us. The recipient of our products is responsible for observing any industrial property rights and existing laws.

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