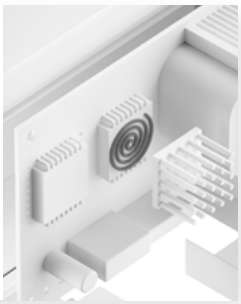
POLYURETHANE ADHESIVE TAD-N-PU-2C

thermally conductive / 2 part / dispensable / Form-in-Place

TAD-N-PU-2C is a thermally conductive two part thixotropic PU-adhesive with thermally conductive fillers in both components. It cures once the two parts come into contact without requiring heat or primer. It has good wetting and high bonding adhesion to most surfaces. The system cures at room temperature or by accelerated heat.
Because of its thixotropic properties, the material can also be used as dispensable 2 part form-in-place gap filler that cures precisely positioned in place. This allows for compensating extreme tolerances and spaces at non-coplanar systems.



Release 07 / 2024

PROPERTIES

- Thermal conductivity: 2 W/mK
- Very high bonding properties
- Extraordinary chemical resistance and longterm stability
- Zero stress on components
- Heat accelerated curing

AVAILABILITY

- 400 ml (2 x 200 ml) twin cartridges
- 2 x 1 kg cans
- 18 l in pails

APPLICATION EXAMPLES

- LED systems
- Processor cooling
- Memory chip assembly
- CPU boards
- EHV battery systems

PROPERTY	UNIT	A-Part	B-Part
MATERIAL		Polyurethane	Polyurethane
Colour		Black	White
Viscosity @ 5 rpm / 10 rpm	Pas	320 / 280	272 / 165
Viscosity (Mixed) @ 5 rpm	Pas	520	
Specific Gravity	g/cm³	2.3	2.6
Specific Gravity (Mixed)	g/cm³	2.45	
Hardness	Shore D	70	
Mixing Ratio	Volume	1 : 1	
Tensile Shear Strength (Al)	psi	1,380	
Tensile Strength	psi	2,030	
Elongation	%	30	
Shelf Live @ 25 °C	Months	6	
Curing Time @ 25 °C		< 24 h	
Flammability	UL 94	V0	
RoHS Conformity	2015 / 863 / EU	Yes	
THERMAL			
Thermal Conductivity[1]	W/mK	2.0	
Operating Temperature Range	°C	- 40 to + 85	
ELECTRICAL			
Dielectric Strength	kV/mm	13.5	
Volume Resistivity	Ohm - cm	4.55×10^{12}	

Measurement technique according to: [1]ASTM D 5470. All data without warranty and subject to change. Please contact us for further data and information.