

POLYURETHANE ADHESIVE TAD-N-PU-2C

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

TAD-N-PU-2C is a thermally conductive and thixotropic PU adhesive made from highly filled A and B components. The adhesive begins to cure immediately after the two components are thoroughly mixed. TAD-N-PU-2C is characterized by high wetting properties and excellent bond strength on most surfaces. The adhesive system cures completely at room temperature, and curing is accelerated at higher temperatures.

Due to its thixotropic properties, TAD-N-PU-2C can also be used as a dispensable two-component system: Form-in-Place Gap Filler, which creates a precisely placeable gap filler system that cures directly in place, allowing gaps with very tight tolerances to be filled, especially in non-planar structures.



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		Polycaprolactam with fillers	Diphenylmethan-4,4'-diisocyanate with fillers
Colour		Black	White
Viscosity @ 5 rpm / 10 rpm	Pas	320 / 280	272 / 165
Viscosity (Mixed) @ 5 rpm	Pas		520
Specific Gravity	g/cm ³	2.3	2.6
Specific Gravity (Mixed)	g/cm ³		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		Cartridges: 6 / Pails: 4
Storage Temperature (@ < 50% rel. H., tightly closed in original container, avoid exposure to direct sunlight and air)	°C		15 - 25
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 x 10 ¹²

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