

Permabond TA4660 - Nylon Bonder

Permabond TA4660 is a two-part structural adhesive designed for use on difficult filled and unfilled nylon surfaces, with no requirement to carry out surface pre-treatment or priming before bonding. The adhesive cures fully at room temperature to form a high strength joint. During pull tests, it even caused the nylon to break, not the bond!



Ideal for bonding:

Aluminium

Glass filled nylon

Nylon 6

Nylon 6,6

Mild steel

+ many more

Permabond® TA4660 Features & Benefits

- Cutting edge technology – patent pending
- Conveniently packaged in cartridges – easy to dispense and mix via mixing nozzle
- Full cure at room temperature
- High strength adhesion to filled and unfilled nylon
- Great adhesion to metal such as steel and aluminium
- Tough – able to cope with differential thermal expansion and contraction between dissimilar surfaces
- Excellent chemical and thermal resistance

Permabond® TA4660 Ideal for:

- Automotive housings for underbonnet applications
- EV battery pack sealing
- Sports equipment manufacture
- Electronics, sensors
- Composite components, profile, pultrusion & stiffener bonding



Permabond TA4660 Product Data

The following technical data for Permabond TA4660 is a guideline and does not constitute a specification. For full technical information, please refer to the technical data sheet, available at www.permabond.com.

Our experienced worldwide trained distributor network means no matter where in the world you are located, Permabond representatives can be called upon to assist you with your bespoke applications.

TA4660	
Description	Two-part structural adhesive designed for use on filled & unfilled nylon surfaces
Appearance	A side: Yellow / B side: Black / Mixed: Green-black
Gap fill (max)	1mm
Features	Excellent adhesion to nylon / Full cure at room temperature / Microbeads for a controlled bondline / No primer required / Low odour / Good temperature resistance
Pot life	5 minutes
Fixture time	25 minutes
Handling time	90 minutes
Working strength	2 hours
Full strength	48 hours
Shear strength (SF= Substrate Failure)	PA6: >10 N/mm ² **SF PA6,6: >6 N/mm ² **SF PA6 30% GF: 14-18 N/mm ² Mild Steel to PA6,6: >10 N/mm ² **SF Aluminium to PA6,6: >10 N/mm ² **SF
Tensile strength	20 N/mm ²
Elongation	11%
Temperature	-40 to +120°C
Packaging	1 x 50ml cartridge / 10 x 50ml pack of cartridges / 6 x 400ml pack of cartridges



This image shows the adhesive bond is so strong that the nylon deforms and breaks

Authorised distributor stamp:

tewipack
klebtechnik



tewipack Uhl GmbH
Industriestraße 15
D-75382 Althengstett
www.tewipack.de

info@tewipack.de
T +49 (7051) 9297 0
shop.tewipack.de

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