

MULTIPURPOSE ADHESIVES - TA4550 & TA4551



Permabond TA4550 & TA4551 are two-part, 2:1 low-odour structural acrylic adhesives designed for effortless, high strength structural bonding of nylon, metals, composites & many plastics.

TA4550 & TA4551 require no surface primers or nylon surface treatment before bonding, facilitating speed and efficiency. In addition to nylon, they are also highly suited to structural bonding of other substrates, especially plastics, composites and metals. The adhesives are very easy to apply via cartridge with a static mixing nozzle and cure quickly at room temperature.

Being thixotropic, TA4550 & TA4551 are ideal for vertical applications, as the adhesives will not slump or sag once applied. They have excellent flow control properties, leading to a more controlled, accurate dispensing and alignment of parts. Their high level of toughening gives both products outstanding resistance to impact and vibration, as well as an incredible peel strength. A low-odour formulation increases worker comfort and overall product satisfaction.

TA4550 and TA4551 are broadly similar, with TA4551 offering a longer open time, ideal for bonding larger surface areas.

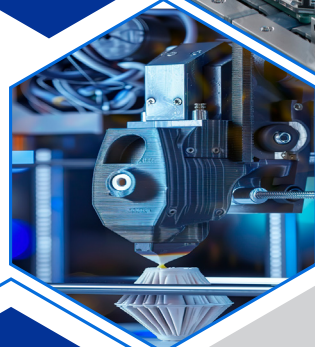


KEY FEATURES:

- ▶ Excellent adhesion to nylon
- ▶ Also bonds metals, plastics, & composites
- ▶ Toughened, great impact & vibration resistance
- ▶ Non-flammable - easy to store & transport
- ▶ Minimal surface preparation required
- ▶ Outstanding shear & peel strength
- ▶ Fast, room temperature cure
- ▶ TA4551 - longer open time
- ▶ Thixotropic, non-slumping
- ▶ Non-CMR (no carcinogenic, mutagenic or reprotoxic substances)
- ▶ Low odour
- ▶ Easy to apply

IDEAL FOR BONDING:

- Acrylic
- Aluminium
- CFRP
- FRP
- GRP
- Mild Steel
- Nylon 6, 6.6 & 12
- PBT
- PMMA
- PVC
- PC
- Stainless Steel
- And many more



STRUCTURAL ACRYLIC ADHESIVE- TA4550/TA4551

TECHNICAL DATA



DESCRIPTION

The following technical data for Permabond TA4550 & TA4551 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. Please contact Permabond to discuss your bonding project.

	TA4550	TA4551
Description	Two-part nylon bonding acrylic adhesive	Two-part nylon bonding acrylic adhesive
Appearance	Green (when first mixed), yellow/tan (once fully cured)	Green (when first mixed), brown (once fully cured)
Features	Outstanding strength on nylon & other substrates. Very tough, non-slumping & no primers needed. High viscosity.	Very high strength on nylon & other substrates. Very tough, non-slumping & no primers needed. Long open time.
Viscosity @25°C (77°F)	100,000 mPas (cP) Thixo	30,000 mPas (cP) Thixo
Shear Strength	PA6: >6 N/mm ² (>870 psi) SF * PA6,6: >6 N/mm ² (>870 psi) SF * Mild Steel: 24-28 N/mm ² (3481-4062 psi)	PA6: 3-4 N/mm ² (440-580 psi) PA6,6: 3-5 N/mm ² (440-730 psi) Mild Steel: 23-27 N/mm ² (3340-3920 psi)
Pot life (10g @23°C/73°F)	3 minutes	10-15 minutes
Working Strength @23°C (73°F)	2 hours	2-3 hours
Peel Strength	250-270 N/25mm (57-62 PIW)	308 N/25mm (70 PIW)
Storage	5 to 25°C (41 to 77°F)	12 to 25°C (54 to 77°F)
Packaging	50ml & 400ml cartridges, bulk on request	50ml & 400ml cartridges, bulk on request

*SF = Substrate Failure

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