

# Instantbond™ & Quantum™ for instant bonding

## Main Benefits

- Simplifies process with single dispensing
- Reduces assembly time with extremely fast curing at room temperature
- High versatility with good adhesion to a wide range of materials and surfaces



## Features

- Instantbond™ and Quantum™ cyanoacrylate adhesives cure rapidly upon contact with a weak alkaline base (usually surface moisture)

## Other Benefits

- Wide formulation range for different applications and performance
- Good compressive, tensile and shear strength

## Typical Application

- Bonding of rubber O-ring and seal
- Loudspeaker assembly
- Assembly of toys
- Tacking of electronic components



## Application Notes

- For faster curing and better adhesion, apply sparingly on clean, close fitted surfaces.
- To reduce blooming (white residue) around the bondline, air ventilation is recommended along with EP™ Accelerator 58 or by using Quantum™ Low Odor Low Bloom series.
- Difficult to bond plastics like silicone rubber, polyethylene, polypropylene, Santoprene and Teflon, require EP™ Adhesion Promoter 42 applied directly to the resistant substrate, before joining parts.
- Full functional strength develops in a fairly short time, while full chemical and solvent resistance results only after 24 hours of full cure.
- Uncured adhesives may cause stress cracking of some plastics like acrylics, polycarbonates, etc. This can be avoided by immediate assembly and curing of the adhesive.

	Instantbond™ 117	Quantum™ 108	Quantum™ 124	Quantum™ 135	Quantum™ 138	Quantum™ 125	Quantum™ 126
Key Performance	For wire tacking & shallow potting	For oily & waxy surfaces	For difficult to bond plastics	General Purpose	For large gap fill, vertical & overhanging surfaces	High impact strength, High service temperature	Low odor & low bloom, For clean bondline
Color	Clear	Clear	Clear	Clear	Clear	Black	Clear
Viscosity, cP	1300 to 1700	2	80	100	Theoretical Gel	950 to 900	50
Gap Fill, mm	0.300	0.002	0.102	0.127	0.254	0.152	0.102
Tensile Shear Strength N/(mm²)(psi)	14 (2100)	17 (2500)	20 (2900)	22 (3200)	24 (3500)	25 (3700)	16 (2300)
Cure Speeds @ 24°C, Fixture/Full	50-60 sec/ 24 hrs	5-20 sec/ 24 hrs	0-20 sec/ 24 hrs	0-20 sec/ 24 hrs	15-90 sec/ 24 hrs	120-180 sec/24 hrs	30-60 sec/ 24 hrs
Temperature Range, °C	-55 to 65	-55 to 75	-55 to 53	-55 to 53	-55 to 53	-55 to 107	-55 to 71