



Speed + Strength

LOCTITE 4090 – Hybrid Adhesive

LOCTITE 4090 adhesive is an innovative hybrid that combines the bond strength and speed you need to solve your design and assembly challenges. With the speed of an instant adhesive and the strength of a structural adhesive, LOCTITE 4090 delivers both performance and versatility.

This powerful combination provides high impact resistance, high strength adhesion on a variety of substrates, as well as high temperature resistance – making LOCTITE 4090 the ideal bonding companion. LOCTITE 4090 opens the door to new applications and new solutions.

Key Benefits of LOCTITE 4090

- Strength of a structural adhesive
- Speed of an instant adhesive
- High impact and vibration resistance
- Temperature resistance up to 150°C
- Gap filling up to 5mm
- Moisture resistance
- Suitable for a variety of substrates, including metals, most plastics and rubbers



LOCTITE 4090 delivers high quality performance in extreme environments and challenging conditions. This hybrid adhesive provides the necessary versatility to solve multiple design, assembly and repair challenges.

In addition to combining the critical attributes of structural and instant adhesives, LOCTITE 4090 offers:

- Fast fixture times even at low temperatures (5°C)
- Low blooming
- Good UV resistance
- Optimised packaging and longer open times for larger surface applications



Product Features



Speed

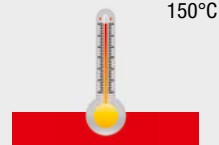
for applications that require the speed of an instant adhesive



High Impact Resistance
for highly stressed joints and applications subjected to vibration.



High Moisture Resistance
for applications that demand good humidity and solvent resistance in various environments



Up to 150°C Temperature Resistance
tested to resist even extreme heat conditions



Gap Filling up to 5mm
for fast bonding of structural parts.

Technical Data

| | |
|---------------------------|---------------------------------|
| Colour | Slightly cloudy to light yellow |
| Appearance | High viscosity gel |
| Mix ratio (volume) | 1:1 |
| Working time | 3 to 5 min. |

Properties of Cured Material

| | | |
|---|---|---|
| Lap shear strength, ISO 4587, after 24 hours, 22°C | Steel (grit blasted) Aluminium (etched) Polycarbonate | 17 N/mm ² 13 N/mm ² 6.9 N/mm ² |
| High gap fill | Up to 5 mm depending on bond geometry | |
| Temperature resistance | -40°C to 150°C | |
| Chemical resistance | Very good chemical/solvent resistance | |

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