

SERVICE & SOLUTIONS

TBP Converting, Inc. 3M Scotch-Weld Low Odor Acrylic Adhesive DP8710NS



Technical Data Sheet

3M™ Scotch-Weld™ Low Odor Acrylic Adhesive DP8710NS

Product Description

3M™ Scotch-Weld™ DP8710 Adhesive is a low odor, non-flammable, two-part acrylic structural adhesives with a 10:1 mix ratio.

Product Features

- Low-odor, non-flammable acrylic formulation
- Non-sag formulation resists running and slumping of adhesive
- Room temperature cure
- Contains spacer beads to control bond line thickness

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Note: The following data is taken from tests conducted on limited production runs. 3M will continue to test samples from additional product runs and will issue a new data page if the test results change.

Typical Uncured Physical Properties

| Property | Values | Additional Information |
|---|--|--|
| Color | Black | View ^ |
| Notes: Colors may vary from nearly white to yellow/ar | mber. Adhesive performance is not affected by color va | riation. |
| Base Color | Black | |
| | | |
| Accelerator Color | Gray | |
| | | |
| Base Density | 1 g/cm³ | View ^ |
| Notes: Density measured using pycnometer. | | |
| Accelerator Density | 1.1 g/cm³ | View ^ |
| Notes: Density measured using pycnometer. | | |
| Base Viscosity | 15000 - 80000 cP | View ^ |
| Notes: Viscosity measured using cone-and-plate visco | ometer; reported viscosity at 4 sec^-1 shear rate. | |
| Accelerator Viscosity | 5000 - 20000 cP | |
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View 🔨

Notes: Viscosity measured using cone-and-plate viscometer; reported viscosity at 4 sec^-1 shear rate.

| Base Viscosity | 40000 cP | View ^ | | | | |
|---|---|---|--|--|--|--|
| Notes: Viscosity measured using cone-and-plate visco | meter; reported viscosity at 3.8 sec^-1 shear rate. | | | | | |
| Accelerator Viscosity | 15000 cP | View ^ | | | | |
| Notes: Viscosity measured using cone-and-plate visco | meter; reported viscosity at 3.8 sec^-1 shear rate. | | | | | |
| Mix Ratio by Volume (B:A) | 10:1 | | | | | |
| | | | | | | |
| Mix Ratio by Weight (B:A) | 10:1 | | | | | |
| Typical Mixed Physical Properties | | | | | | |
| Property | Values | Additional Information | | | | |
| Open Time (min) | 10 to 12 min | View ^ | | | | |
| Notes: Max time allowed after applying adhesive to a substrate before bond must be closed and fixed. Cure times approximate and depend on adhesive temperature. Hotmelts: The approx. bonding range of a 1/8" bead of molten adhesive on a non-metallic surface. | | | | | | |
| Time to Structural Strength | 15 to 20 min | View ^ | | | | |
| Notes: Minimum time required to achieve 1,000 psi of | overlap shear strength. Cure times are approximate and | depend on adhesive temperature. | | | | |
| Viscosity | 40000 cP | | | | | |
| | | | | | | |
| Density (mixed) | 1 g/cm³ | | | | | |
| | | | | | | |
| Worklife | 8 to 10 min | View ^ | | | | |
| Notes: Maximum time that adhesive can remain in a st depend on adhesive temperature. | atic mixing nozzle and still be expelled without undue fo | rce on the applicator. Cure times are approximate and | | | | |
| Set Time (min) | 12 to 14 min | View ^ | | | | |
| Temp C: 23C Temp F: 73F | | | | | | |
| Notes: Minimum time required to achieve 50 psi of ov | erlap shear strength. Cure times are approximate and de | pend on adhesive temperature. | | | | |
| Time to Full Cure | 24 hr | View ^ | | | | |
| Temp C: 23C Temp F: 73F | | | | | | |

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Typical Physical Properties

| Property | Values | Additional Information |
|------------------|--------|------------------------|
| Color | Black | View ^ |
| Test Name: Mixed | | |
| Color | Black | View ^ |
| Test Name: Cured | | |
| | | |

Typical Performance Characteristics

Additional Test notes

Note: This adhesive also has relatively low adhesion to low surface energy plastics (such as polypropylene, polyethylene, TPO, and PTFE). Applications involving any of these materials should be carefully evaluated by the end user for suitability.

Note: The presence of oxygen inhibits the cure of acrylic structural adhesives. Therefore, any exposed surfaces of the mixed adhesive will cure much more slowly than adhesive contained within the bond line. With methyl methacrylate (MMA) acrylic adhesives, any uncured adhesive on the surface flashes off immediately, leaving a surface that feels dry to the touch. With this low odor acrylic adhesive, uncured adhesive on exposed surfaces does not evaporate away as quickly, leaving a tacky film of partially cured material. For manufacturing processes that need a tack-free surface quickly, such as for subsequent sanding or painting operations, consider instead using a standard MMA acrylic adhesive.

| Property | Values | Additional Information |
|---|--|--|
| Environmental Resistance 30min 200C Aluminum | 100 % | View ^ |
| Test Method: ASTM D1002 Test Name: Overlap Shear Strength Dwell/Cure Time: 30.0 Dwell Time Units: min Temp C: 200C Temp F: 392F Substrate: Aluminum Notes: Performance % to control sample @RT, tested exposure to: Temp >100°F + water Ketone-type solve | after 24hr dwell @RT. Cured adhesives can handle short nts (acetone, MEK) Gasoline and similar liquids | t contact to most chemicals or env. cond. Avoid long |
| Environmental Resistance -40°C (-40°F) Aluminum | 100 % | View ^ |
| Test Name: Overlap Shear Strength Notes: Performance % to control sample @RT, tested exposure to: Temp >100°F + water Ketone-type solve | after 24hr dwell @RT. Cured adhesives can handle short Ints (acetone, MEK) Gasoline and similar liquids | t contact to most chemicals or env. cond. Avoid long |
| Environmental Resistance 85°C (185°F) 85%RH Aluminum | 81 % | View ^ |
| Test Name: Overlap Shear Strength Notes: Performance % to control sample @RT, tested exposure to: Temp >100°F + water Ketone-type solve | after 24hr dwell @RT. Cured adhesives can handle shor nts (acetone, MEK) Gasoline and similar liquids | t contact to most chemicals or env. cond. Avoid long |
| Environmental Resistance 23°C (72°F) Salt water (5 wt% in water) Aluminum | 71 % | View ^ |
| Test Name: Overlap Shear Strength Notes: Performance % to control sample @RT, tested exposure to: Temp >100°F + water Ketone-type solve | after 24hr dwell @RT. Cured adhesives can handle short nts (acetone, MEK) Gasoline and similar liquids | t contact to most chemicals or env. cond. Avoid long |



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| Bell Peel 23°C (72°F) Aluminum | 60 lb/in width | View ^ |
|--------------------------------|----------------|--------|
|--------------------------------|----------------|--------|

Substrate: Etched Aluminum

Notes: 6 in/min, 1in wide, 1/16in thick Data from 3MTM EPXTM Applicator System with an EPX static mixer according to manufacturer's directions. Thorough handmixing will afford comparable results. Cohesive (CF), Adesive (AF) and Substrate (SF) Failure

| Overlap Shear Strength 7day Aluminum | 2101 lb/in² | View | · ^ |
|---|-------------|---------------------------------------|--|
| Test Method: ASTM D1002 Test Name: Overlap Shear Strength Dwell/Cure Time: 7.0 Dwell Time Units: day Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Substrate: Aluminum Surface Preparation: MEK/Abrade/MEK Notes: 1in wide 1/2in overlap specimens. 2 panels of 0 0.1 in/min, 0.005-0.008in bondline. Cohesive (CF), Au Overlap Shear Strength 7day Cold Rolled Steel Test Method: ASTM D1002 Test Name: Overlap Shear Strength | | | |
| Dwell/Cure Time: 7.0 Dwell Time Units: day Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Substrate: Cold Rolled Steel Surface Preparation: MEK/Abrade/MEK Notes: Overlap shear (OLS) strengths were measured bondline. Cohesive (CF), Adhesive(AF), and Substrate | | ecimens on 1in x 4in x .060in substr | ates. Jaw separation 0.1 in/min. 0.005-0.008in |
| Overlap Shear Strength 7day ABS | 846 lb/in² | View | · ^ |
| Test Method: ASTM D1002 Test Name: Overlap Shear Strength Dwell/Cure Time: 7.0 Dwell Time Units: day Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Substrate: ABS Surface Preparation: IPA Wipe Notes: Overlap shear (OLS) strengths were measured 0.008in bondline. Jaw Separation 2in/min Cohesive (m | | | ↓ in x 0.125in pieces of substrate with a 0.005- |
| Overlap Shear Strength 7day Polyvinyl chloride (PVC) | 524 lb/in² | View | · ^ |
| Test Method: ASTM D1002 Test Name: Overlap Shear Strength Dwell/Cure Time: 7.0 Dwell Time Units: day Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Substrate: Polyvinyl chloride (PVC) Surface Preparation: IPA Wipe Notes: Overlap shear (OLS) strengths were measured bondline. Cohesive Failure (CF), Adhesive Failure (AF) | | specimens. 1" x 4" x 0.125" substrate | e Jaw separation 2 in/min; 0.005-0.008in |
| Overlap Shear Strength 7day Polycarbonate (PC) | 168 lb/in² | View | · ^ |
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Test Method: ASTM D1002

Test Name: Overlap Shear Strength Dwell/Cure Time: 7.0 Dwell Time Units: day Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Surface Preparation: IPA Wipe

Notes: Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. 1" x 4" x 0.125" substrate Jaw separation 2 in/min; 0.005-0.008in bondline. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)

Typical Cured Characteristics

| Property | Values | Additional Information |
|---|---|------------------------|
| Modulus | 6410 lb/in² | View ^ |
| Notes: 1/8" thick Type I test specimens; samples pulle ASTM D638 2 week dwell at 23°C (72°F) | d at 0.2 in/min. | |
| Tensile Strength | 1051 lb/in² | View ^ |
| Notes: 1/8" thick Type I test specimens; samples pulle | d at 0.2 in/min. | |
| Tensile Strain at Break | 113 % | View ^ |
| Notes: 1/8" thick Type I test specimens; samples pulle | d at 0.2 in/min. | |
| Shore D Hardness | 65 | View ^ |
| Test Method: ASTM D2240 Temp C: 23C Temp F: 73F | | |
| | | |
| Overlap Shear Strength 24hour Acrylic | 582 lb/in² | View ^ |
| Test Method: ASTM D1002 Test Name: Overlap Shear Strength Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Substrate: Acrylic (PMMA) Surface Preparation: Light Abrasion and Solvent Clear Notes: 1min open time, 1/2in overlap, 0.010in bond lin | ו e thickness, separation rate 0.1 in/min metals, 2 in/min p | |
| Test Method: ASTM D1002 Test Name: Overlap Shear Strength Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Substrate: Acrylic (PMMA) Surface Preparation: Light Abrasion and Solvent Clear | ו e thickness, separation rate 0.1 in/min metals, 2 in/min p | |
| Test Method: ASTM D1002 Test Name: Overlap Shear Strength Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Substrate: Acrylic (PMMA) Surface Preparation: Light Abrasion and Solvent Clear Notes: 1min open time, 1/2in overlap, 0.010in bond lin | ו e thickness, separation rate 0.1 in/min metals, 2 in/min p | |

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Notes: 1min open time, 1/2in overlap, 0.010in bond line thickness, separation rate 0.1 in/min metals, 2 in/min plastics, abraded and solvent wiped substrates, 1/16in metals, 1/8in plastics Cohesive (CF), Adhesive (AF), and Substrate (SF) Failure

| Overlap Shear Strength 24hour Epoxy Resin (Fibre Reinforced) | 1948 lb/in² | View ^ |
|---|---|--|
| Test Method: ASTM D1002 | | |
| Test Name: Overlap Shear Strength Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Substrate: Epoxy Resin (Fibre Reinforced) Surface Preparation: Light Abrasion and Solvent Clear | 1 | |
| Notes: 1min open time, 1/2in overlap, 0.010in bond lin metals, 1/8in plastics Cohesive (CF), Adhesive (AF), an | e thickness, separation rate 0.1 in/min metals, 2 in/min p id Substrate (SF) Failure | plastics, abraded and solvent wiped substrates, 1/16in |
| Overlap Shear Strength 24hour Aluminum (Tested at -40°C/F) | 4787 lb/in² | View ^ |
| Test Method: ASTM D1002 | | |
| Test Name: Overlap Shear Strength Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 23C Temp F: 73F Environmental Condition: 50%RH Test Condition: @ -40°F(-40°C) Substrate: Aluminum Surface Preparation: Light Abrasion and Solvent Clear Notes: 1min open time, 1/2in overlap, 0.010in bond lin metals, 1/8in plastics Cohesive (CF), Adhesive (AF), ar | e thickness, separation rate 0.1 in/min metals, 2 in/min p | plastics, abraded and solvent wiped substrates, 1/16in |
| Overlap Shear Strength 24hour Aluminum (Tested at 82°C/180°F) | 690 lb/in² | View ^ |
| Test Method: ASTM D1002 | | |
| Test Name: Overlap Shear Strength Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 23C | | |
| Temp F: 73F Environmental Condition: 50%RH Test Condition: @ 180°F(82°C) Substrate: Aluminum Surface Preparation: Light Abrasion and Solvent Clear | | |
| Environmental Condition: 50%RH Test Condition: @ 180°F(82°C) Substrate: Aluminum Surface Preparation: Light Abrasion and Solvent Clear | e thickness, separation rate 0.1 in/min metals, 2 in/min p | plastics, abraded and solvent wiped substrates, 1/16in |
| Environmental Condition: 50%RH Test Condition: @ 180°F(82°C) Substrate: Aluminum Surface Preparation: Light Abrasion and Solvent Clear Notes: 1min open time, 1/2in overlap, 0.010in bond lin | e thickness, separation rate 0.1 in/min metals, 2 in/min p | plastics, abraded and solvent wiped substrates, 1/16in |
| Environmental Condition: 50%RH Test Condition: @ 180°F(82°C) Substrate: Aluminum Surface Preparation: Light Abrasion and Solvent Clear Notes: 1min open time, 1/2in overlap, 0.010in bond lin metals, 1/8in plastics Cohesive (CF), Adhesive (AF), ar | e thickness, separation rate 0.1 in/min metals, 2 in/min p Id Substrate (SF) Failure | |

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| Property | Values | Additional Information | | |
|------------------------------|--|------------------------|--|--|
| Thixotropic Index | 3.8 | | | |
| Mixing Nozzle Recommendation | Quadro Mixing Nozzle Mix Elements: 16 Length (mm): 90 Volume (ml): 1.72 3M Stock #:7100202930 | View ^ | | |
| Notes: 50ml Cartridge | | | | |
| Mixing Nozzle Recommendation | Helical Mixing Nozzle Mix Elements: 18 Length (mm): 221.9 Volume (ml): 12.96 3M Stock #: 7100015959 | View 🔨 | | |
| Notes: 400ml Cartridge | | | | |
| Mixing Nozzle Recommendation | Helical Low waste Mixing Nozzle Mix Elements: 24 Length (mm): 136.7 Volume (ml): 6.28 3M Stock #:7100066351 | View ^ | | |
| Notes: 400ml Cartridge | | | | |
| Fillers | Product contains ceramic particles from 0.002" to 0.010" | | | |
| Cleaning Recommendation | Excess uncured adhesive can be cleaned with methyl ethyl ketone (MEK) | | | |
| Packaging | 45ml & 490ml cartridges 5 gallon pails 55 gal drums | | | |
| | | | | |

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Trademarks

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Handling/Application Information

Directions for Use

1. To obtain the highest strength structural bonds, paint, oxide films, oils, dust, mold release agents, and all other surface contaminants must be completely removed. The amount of surface preparation depends on the required bond strength and environmental aging resistance desired by user. For suggested surface preparations on common substrates, see the section on surface preparation.

2. Mixing For Duo-Pak Cartridges

Store cartridges with cap end up to allow any air bubbles to rise towards the tip. To use, simply insert the cartridge into the EPX applicator and start the plunger into the cylinders using light pressure on the trigger. Then remove the cap and expel a small amount of adhesive to ensure material flows freely from both sides of cartridge. For automatic mixing, attach an EPX mixing nozzle to the cartridge and begin dispensing the adhesive. For hand mixing, expel the desired amount of adhesive and mix thoroughly. Mix approximately 15 seconds after obtaining a uniform color.

For Bulk Containers

Mix thoroughly by weight or volume in the proportion specified on the product label or in the typical uncured properties section. Mix approximately 15 seconds after obtaining a uniform color.

3. Apply adhesive and join surfaces within the open time listed for the specific product. Larger quantities and/or higher temperatures will reduce this working time.

4. Allow adhesive to cure at 60°F (16°C) or above until completely firm. Applying heat up to 150°F (66°C) will increase cure speed.

5. Keep parts from moving during cure. Apply contact pressure or fixture in place if necessary. Optimum bond line thickness ranges from 0.005 to 0.020 inch; shear strength will be maximized with thinner bond lines, while peel strength reaches a maximum with thicker bond lines.

6. Excess uncured adhesive can be cleaned up with ketone-type solvents.

*Note: When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

Surface Preparation

3M[™] Scotch-Weld[™] Acrylic Adhesives are designed to be used on painted/coated metals, most bare metals, and most plastics and composite materials. The following cleaning methods are suggested for common surfaces: Painted/coated metals: 1. Wipe surface free of dust and dirt with clean cloth and pure isopropyl alcohol.* 2. Sandblast or lightly abrade using clean fine grit abrasives. Do not completely remove the paint layer or coating down to bare steel. 3. Wipe again with clean cloth and pure isopropyl alcohol to remove loose particles.* Bare metals: 1. Wipe surface free of dust and dirt with clean cloth and pure acetone.* 2. Sandblast or lightly abrade using clean fine grit abrasives. 3. Wipe again with clean cloth and pure acetone.* 1. Wipe surface free of dust and dirt with clean cloth and pure acetone.* 1. Wipe surface free of dust and dirt with clean cloth and pure sufface free of dust and dirt with clean cloth and pure isopropyl alcohol.* 2. Lightly abrade using fine grit abrasives. 3. Wipe again with clean cloth and pure isopropyl alcohol.* 2. Lightly abrade using fine grit abrasives. 3. Wipe again with clean cloth and pure isopropyl alcohol to remove loose particles.* *Note: When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

References

| Property | Values |
|-----------------------|---|
| 3m.com Product Page | https://www.3m.com/3M/en_US/p/d/b5005197013/ |
| Safety Data Sheet SDS | https://www.3m.com/3M/en_US/company-us/SDS-search/results/? gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&g=DP8710NS |

Family Group

Link Tags:

DP8710NS

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| Products | Color | Worklife | Set Time (min) | Time to Full Cure | Modulus | Tensile Strain at Break | Shore D Hardness |
|----------|-------|-------------|----------------|-------------------|-------------|----------------------------|------------------|
| DP8710NS | Black | 8 to 10 min | 12 to 14 min | 24 hr | 6410 lb/in² | 113 % | 65 |

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501.

Information

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