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Technical Data Sheet

3M[™] Scotch-Weld[™] Epoxy Adhesive DP100 Clear

Product Description

3M[™] Scotch-Weld[™] Epoxy Adhesive DP100 is a two-part adhesive offering fast cure and machinability. Available in larger containers as 3M[™] Scotch-Weld[™] Epoxy Adhesives 100 B/A or 100 NS B/A.

Product Features

- Easy mixing
- High Flow
- Fast Cure
- Meets UL 94 HB

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Uncured Physical Properties

Property

Additional Information

Color	Clear	View	^
Notes: Colors may vary from nearly white to yellow/amber. Adhesive performance is not affected by color variation.			
Base Viscosity	8,000-15,000 cP	View	^
Test Method: 3M C1d Temp C: 27C Temp F: 80F Notes: Procedure involves Brookfield RVF, #6 spindle	e, 20 rpm. Measurement taken after 1 minute.		
Accelerator Viscosity	9,000-16,000 cP	View	^
Test Method: 3M C1d Temp C: 27C Temp F: 80F Notes: Procedure involves Brookfield RVF, #6 spindle	e, 20 rpm. Measurement taken after 1 minute.		
Base Resin	Ероху		
Base Net Weight	9.5 to 9.9 lb/gal		



Accelerator Net Weight	9.2 to 9.6 lb/gal
Mix Ratio by Volume (B:A)	1:1
Mix Ratio by Weight (B:A)	1:0.98

Typical Mixed Physical Properties

Property	Values	Additional Information
Open Time	5 min	View ^
Notes: POR=Pop Off Rubber		
Worklife, 10g mixed	5 min	View ^
Test Method: 3M C548 Temp C: 23C Temp F: 73F Notes: Procedure involves periodically measuring a 10 applicator nozzle.	gram mixed mass for spreading and wetting properties.	This time approximates the usable worklife in an EPX

Temp C: 23C Temp F: 73F

Notes: Minimum time required to achieve 50 psi of overlap shear strength. Cure times are approximate and depend on adhesive temperature.

Time to Full Cure	24 to 48 hr	View ^
Temp C: 23C Temp F: 73F		
Notes: The cure time is defined as that time required for	or the adhesive to achieve a minimum of 80% of the ultin	nate strength as measured by aluminum-aluminum OLS.
Time to Full Cure	24 to 48 hr	View ^
Temp C: 23C Temp F: 73F		
Rate of Strength Buildup 20min	400 lb/in²	View ^
Test Method: ASTM D1002 Test Name: Overlap Shear Strength Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Substrate: Aluminum Notes: 1in wide 1/2in overlap shear specimens. 2 pane bondline. Jaw Separation 0.1in/min	ls 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum	bonded and cut 1in wide samples after 24hr. 7mil
Rate of Strength Buildup	0 lb/in²	



View 🔨

Test Method: ASTM D1002

Test Name: Overlap Shear Strength Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Substrate: Aluminum

Notes: 1in wide 1/2in overlap shear specimens. 2 panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum bonded and cut 1in wide samples after 24hr. 7mil bondline. Jaw Separation 0.1in/min

Typical Physical Properties

Property	Values	Additional Information
Color	Clear	View ^
Test Name: Cured		
Typical Cured Characteristics		
Property	Values	Additional Information
Shore D Hardness	82	View ^
Test Method: ASTM D2240		
Temp C: 23C Temp F: 73F		

(TGA)	585°F(307°C)	View ^
Test Method: ASTM E1131		
Notes: Weight loss by Thermal Gravimetric Analy	vsis reported as that temperature at whi	ch 5% weight loss occurs by TGA in air at 5°C (9°F) rise per minute.
Compression Strength	8400 lb/in²	View ^
Test Method: ASTM D695		
Typical Performance Characteristics Property	Values	Additional Information
Typical Performance Characteristics Property Overlap Shear Strength 7day Aluminum	Values 950 lb/in²	Additional Information
Property		

Notes: 1in wide 1/2in overlap specimens. 2 panels of 0.05-0.064in x 4in x 7in 2024T-3 clad aluminum bonded and cut to 1in wide samples after 24hr. Jaw separation



0.1 in/min, 0.005-0.008in bondline. Cohesive (CF), Adhesive (AF), and Substrate (SF) Failure

Overlap Shear Strength 7day Cold Rolled Steel	1000 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: Cold Rolled Steel Surface Preparation: MEK/Abrade/MEK Notes: Overlap shear (OLS) strengths were measured bondline. Cohesive (CF), Adhesive(AF), and Substrated	on 1in wide 1/2in overlap specimens on 1in x 4in x .060ir (SF) Failure	n substrates. Jaw separation 0.1 in/min. 0.005-0.008in
Overlap Shear Strength 7day Copper	950 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: Copper Surface Preparation: MEK/Abrade/MEK Notes: Overlap shear (OLS) strengths were measured 0.008in bondline. Cohesive (CF), Adhesive(AF), and S	on 1in wide 1/2in overlap specimens on 1in x 4in x 0.05-0 Substrate(SF) Failure	0.060in substrates. Jaw separation 0.1 in/min. 0.005-
Overlap Shear Strength 7day Brass	700 lb/in²	View ^

Test Method: ASTM D1002

rest Name. Ovenap Snear Strength
Dwell/Cure Time: 7.0
Dwell Time Units: day
Temp C: 23C
Temp F: 73F
Environmental Condition: 50%RH
Substrate: Brass
Surface Preparation: MEK/Abrade/MEK

Notes: Overlap shear (OLS) strengths were measured on 1in wide 1/2in overlap specimens on 1in x 4in x 0.05-0.060in substrates. Jaw separation 0.1 in/min. 0.005-0.008in bondline. Cohesive (CF), Adhesive(AF), and Substrate(SF) Failure

Overlap Shear Strength 7day Stainless Steel	750 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: Stainless Steel Surface Preparation: MEK/Abrade/MEK

Notes: Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1" x 4" x 0.060" substrate Jaw Separation 0.1in/min Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)

Overlap Shear Strength 7day ABS	490 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/Abrade/IPA Wipe

Notes: Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. Bonds made with 1 in x 4 in x 0.125in pieces of substrate with a 0.005-0.008in bondline. Jaw Separation 2in/min Cohesive (CF), Adhesive (AF), Substrate (SF) Failure

Overlap Shear Strength 7day Polyvinyl chloride (PVC)	330 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/Abrade/IPA Wipe Notes: Overlap shear (OLS) strengths were measured of bondline. Cohesive Failure (CF), Adhesive Failure (AF),	on 1 in. wide 1/2 in. overlap specimens. 1'' x 4'' x 0.125'' su Substrate Failure (SF)	ubstrate Jaw separation 2 in/min; 0.005-0.008in
Overlap Shear Strength 7day Polycarbonate (PC)	250 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: Polycarbonate (PC) Surface Preparation: IPA Wipe/Abrade/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)

Overlap Shear Strength 7day Acrylic (PMMA)	100 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: Acrylic (PMMA) Notes: Overlap shear (OLS) strengths were measured bondline. Cohesive Failure (CF), Adhesive Failure (AF)	on 1 in. wide 1/2 in. overlap specimens. 1" x 4" x 0.125" si , Substrate Failure (SF)	ubstrate Jaw separation 2 in/min; 0.005-0.008in
Overlap Shear Strength 7day Fiber-Reinforced Plastic	950 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: Fiber-Reinforced Plastic Surface Preparation: IPA Wipe/Abrade/IPA Wipe Notes: Overlap shear (OLS) strengths were measured bondline. Cohesive Failure (CF), Adhesive Failure (AF)	on 1 in. wide 1/2 in. overlap specimens. 1" x 4" x 0.125" si , Substrate Failure (SF)	ubstrate Jaw separation 2 in/min; 0.005-0.008in
Solvent Resistance Acetone 1hr	A	View ^



Environmental Condition: 24hr @ RT + 2hr @ 160F(71C) + Acetone 1hr

Notes: Cured OLS samples immersed in solvent and after dwell, examined for surface attack compared to control. A: Unaffected, no color or texture change B: Slight attack, slight swelling of surface. C: Moderate/severe attack, extreme swelling of surface.

Solvent Resistance Acetone 1month	A	View ^
Environmental Condition: 24hr @ RT + 2hr @ 160F(71C Notes: Cured OLS samples immersed in solvent and a attack, slight swelling of surface. C: Moderate/severe	fter dwell, examined for surface attack compared to cont	rol. A: Unaffected, no color or texture change B: Slight
Solvent Resistance Isopropyl Alcohol 1hr	A	View ^
Environmental Condition: 24hr @ RT + 2hr @ 160F(71C Notes: Cured OLS samples immersed in solvent and a attack, slight swelling of surface. C: Moderate/severe	fter dwell, examined for surface attack compared to cont	rol. A: Unaffected, no color or texture change B: Slight
Solvent Resistance Isopropyl Alcohol 1month	В	View ^
Environmental Condition: 24hr @ RT + 2hr @ 160F(71C	:) + Isopropyl Alcohol 1mo fter dwell, examined for surface attack compared to cont	
Environmental Condition: 24hr @ RT + 2hr @ 160F(71C Notes: Cured OLS samples immersed in solvent and a	:) + Isopropyl Alcohol 1mo fter dwell, examined for surface attack compared to cont	

View 🔨

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Environmental Condition: 24hr @ RT + 2hr @ 160F(71C) + Freon TF 1mo		
Notes: Cured OLS samples immersed in solvent and a attack, slight swelling of surface. C: Moderate/severe	fter dwell, examined for surface attack compared to con attack, extreme swelling of surface.	trol. A: Unaffected, no color or texture change B: Slight
Solvent Resistance Freon TMC 1hr	A	View ^
Environmental Condition: 24hr @ RT + 2hr @ 160F(710	C) + Freon TMC 1hr	
Notes: Cured OLS samples immersed in solvent and a attack, slight swelling of surface. C: Moderate/severe	fter dwell, examined for surface attack compared to con attack, extreme swelling of surface.	trol. A: Unaffected, no color or texture change B: Slight
Solvent Resistance Freon TMC 1month	A	View ^
Environmental Condition: 24hr @ RT + 2hr @ 160F(710	C) + Freon TMC 1mo	
Notes: Cured OLS samples immersed in solvent and a attack, slight swelling of surface. C: Moderate/severe	fter dwell, examined for surface attack compared to con attack, extreme swelling of surface.	trol. A: Unaffected, no color or texture change B: Slight
Solvent Resistance 1, 1, 1 - Trichloroethane 1hour	A	View ^
Environmental Condition: 24hr @ RT + 2hr @ 160F(710	C) + 1, 1, 1 - Trichloroethane 1hr	
Notes: Cured OLS samples immersed in solvent and a attack, slight swelling of surface. C: Moderate/severe	fter dwell, examined for surface attack compared to con attack, extreme swelling of surface.	trol. A: Unaffected, no color or texture change B: Slight
Solvent Resistance 1, 1, 1 - Trichloroethane 1month	В	View ^



Environmental Condition: 24hr @ RT + 2hr @ 160F(71C) + 1, 1, 1 - Trichloroethane 1mo

Notes: Cured OLS samples immersed in solvent and after dwell, examined for surface attack compared to control. A: Unaffected, no color or texture change B: Slight attack, slight swelling of surface. C: Moderate/severe attack, extreme swelling of surface.

Solvent Resistance RMA Flux 1hr	A	View ^	
Environmental Condition: 24hr @ RT + 2hr @ 160F(71C) + RMA Flux 1hr			
Notes: Cured OLS samples immersed in solvent and a attack, slight swelling of surface. C: Moderate/severe	fter dwell, examined for surface attack compared to con attack, extreme swelling of surface.	trol. A: Unaffected, no color or texture change B: Slight	
Solvent Resistance RMA Flux 1month	A	View ^	
Environmental Condition: 24hr @ RT + 2hr @ 160F(71C	c) + RMA Flux 1mo		
Notes: Cured OLS samples immersed in solvent and a attack, slight swelling of surface. C: Moderate/severe	fter dwell, examined for surface attack compared to con- attack, extreme swelling of surface.	trol. A: Unaffected, no color or texture change B: Slight	
Overlap Shear Strength 7day Galvanized Steel	900 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: Galvanized Steel			
Surface Preparation: MEK/Abrade/MEK			
Notes: 0.5in overlap, 0.1 in/min for metals and 2 in/mi Substrate (SF), Adhesive (AF), Cohesive (CF), and Mix	n for plastics, substrates lightly abraded and solvent wipe ed (MF) Failure modes	ed, substrates used were 1/16in thick, 0.010in bondline	

T-Peel Adhesion 7day 23C Aluminum

2 lb/in width

View 🔨

Test Method: ASTM D1876

Test Name: T-Peel Adhesion Dwell/Cure Time: 7.0 Dwell Time Units: day Temp C: 23C Temp F: 73F Substrate: Aluminum

Notes: 0.032in thick, 5 - 8 mil bondline T-peel strengths with 1 in wide bonds. Jaw separation rate @ 20 in/min.

T-Peel Adhesion 7day 23C Aluminum	2 lb/in width	View ^
Test Method: ASTM D1876		
Test Name: T-Peel Adhesion Dwell/Cure Time: 7.0 Dwell Time Units: day Temp C: 23C Temp F: 73F Substrate: Aluminum Notes: 0.032in thick, 5 - 8 mil bondline T-peel strengt	hs with 1 in wide bonds. Jaw separation rate @ 20 in/mir	۱.
T-Peel Adhesion 7day 23C Cold Rolled Steel	2 lb/in width	View ^
Test Method: ASTM D1876 Test Name: T-Peel Adhesion Dwell/Cure Time: 7.0 Dwell Time Units: day Temp C: 23C		



Surface Preparation: MEK/Abrade/MEK

Notes: 0.032in thick, 5 - 8 mil bondline T-peel strengths with 1 in wide bonds. Jaw separation rate @ 20 in/min.

Electrical and Thermal Properties

Property	Values	Additional Information
Glass Transition Temperature (Tg)	33 °C	View ^
Notes: Glass Transition Temperature (Tg) determined	using DSC Analyzer with a heating rate of 68°F (20°C) p	per minute. Second heat values given.
Glass Transition Temperature (Tg)	91 °F	View ^
Notes: Glass Transition Temperature (Tg) determined	using DSC Analyzer with a heating rate of 68°F (20°C) p	per minute. Second heat values given.
Volume Resistivity	3.5 x 10^12 Ω-cm	View ^
Test Method: ASTM D257 Temp C: 23C Temp F: 73F		
Coefficient of Thermal Expansion	60 x 10^-6 m/m/°C	View ^
Notes: Coefficient of thermal expansion determined using DuPont (TMA) using a heating rate of 10°C (50°F) per minute. Second heat values given.		
Coefficient of Thermal Expansion	209 x 10^-6 m/m/°C	View ^

Notes: Coefficient of thermal expansion determined using DuPont (TMA) using a heating rate of 10°C (50°F) per minute. Second heat values given.

Storage and Shelf Life

Store products at 60-80°F (16-27°C) for maximum storage life. Rotate on "first in-first out" basis. When stored as recommended in original unopened container, this product has a shelf life of 24 months from date of manufacture.

Industry Specifications

UL 94 HB

Automotive Disclaimer

Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's automotive application and for conducting incoming inspections before use of the product. Failure to do so may result in injury, death, and/or harm to property. No written or verbal statement, report, data or recommendation by 3M related to automotive use of the product shall have any force or effect unless in an agreement signed by the Technical Director of 3M's Automotive Division. Customer assumes all responsibility and risk if customer chooses to use this product in an automotive electric powertrain battery or high voltage application, and 3M will not be liable for any loss or damage arising from or related to the 3M product or customer's use of the product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity or recall costs), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability. In no event shall 3M be liable for any damages in excess of the purchase price paid for the product.

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Bottom Matter

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Trademarks

3M, Scotch-Weld and EPX are trademarks of 3M Company.

Handling/Application Information

Application Equipment

For small or intermittent applications the 3M[™] Scotch-Weld[™] EPX[™] applicator is a convenient method of application.

For larger applications these adhesives may be applied by use of flow equipment. Two-part meter/mixing/dispensing equipment is available for intermittent or production line use. These systems may be desirable because of their variable shot size and flow rate characteristics and are adaptable to many applications.

Directions for Use

1. For optimum strength structural bonds, paint, oxide films, oils, dust, mold release agents and all other surface contaminants must be completely removed. However, the amount of surface preparation directly depends on the required bond strength and the environmental aging resistance desired by user. For specific surface preparations on common substrates, see the following section on Surface Preparation.

2. Use gloves to minimize skin contact with adhesive.

3. These products consist of two parts.

Mixing and Applying

For Duo-Pak Cartridges - 48.5 ml

3M[™] Scotch-Weld[™] DP100 and DP100 NS Adhesives are suppled in a dual syringe plastic Duo-Pak cartridge as part of the 3M[™] Scotch-Weld[™] EPX[™] Applicator system. To use, simply insert the Duo-Pak cartridge into the EPX applicator and start the plunger into the cylinders using light pressure on the trigger. Next, remove the Duo-Pak

cartridge cap and expel a small amount of adhesive to be sure both sides of the Duo-Pak cartridge are flowing evenly and freely. If mixing of Part A and Part B is desired, attach the EPX mixing nozzle to the Duo-Pak cartridge and begin dispensing the adhesive. For hand mixing, expel the desired amount of adhesive and mix thoroughly. Mix approximately 15 seconds after uniform color is obtained.

For Duo-Pak Cartridges - 200/400 ml

Directions for Use: While holding cartridge in an upright position, remove insert from Duo-Pak cartridge by unscrewing plastic nut. Detach metal removal disc from insert to free plastic nut for nozzle attachment. Clear orifices if necessary. Attach mixing nozzle and secure with plastic nut. Place cartridge into EPX Applicator. Dispense a small quantity of adhesive to assure both components are dispensing equally. Apply adhesive to clean surfaces, join parts, secure until set up (20 minutes @ 75°F [24°C]). Leave nozzle attached to store. Replace nozzle after storage.

For Bulk Containers

Mix thoroughly by weight or volume in the proportions specified in the Typical Uncured Properties section. Mix approximately 15 seconds after uniform color is obtained.

4. For maximum bond strength apply adhesive evenly to both surfaces to be joined.

5. Application to the substrates should be make within 5 minutes. Larger quantities and/or higher temperatures will reduce this working time.

6. Join the adhesive coated surfaces and allow to cure at 60°F (16°C) or above until completely firm. Heat, up to 200°F (93°C), will speed curing. These products will fully cure in 24-48 hours @ 75°F (24°C).

7. Keep parts from moving during cure. Contact pressure is necessary. Maximum shear strength is obtained with a 3-5 mil bond line.

8. Excess uncured adhesive can be cleaned up with ketone type solvents.*

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

Adhesive Coverage: A 0.005 in. thick bondline will typically yield a coverage of 320 sqft/gallon.

Surface Preparation

For optimum strength structural bonds, paint, oxide films, oils, dust, mold release agents and all other surface contaminants must be completely removed. However, the amount of surface preparation directly depends on the required bond strength and the environmental aging resistance desired by the user.

The following cleaning methods are suggested for common surfaces:



Steel:

- 1. Wipe free of dust with oil-free solvent such as acetone or isopropyl alcohol.*
- 2. Sandblast or abrade using clean fine grit abrasives.
- 3. Wipe again with solvent to remove loose particles.
- 4. If a primer is used, it should be applied within 4 hours after surface preparation.

Aluminum:

1. Acid Etch: Place panels in the following solution for 10 minutes at $150^{\circ}F \pm 5^{\circ}F$ (66°C ± 2°C).

Sodium Dichromate 4.1 - 4.9 oz./gallon

Sulfuric Acid, 66°Be 38.5 - 41.5 oz./gallon 2024-T3 aluminum (dissolved) 0.2 oz./gallon minimum Tap Water as needed to balance

2. Rinse: Rinse panels in clear running tap water.

3. Dry: Air dry 15 minutes and force dry 10 minutes at $150^{\circ}F \pm 10^{\circ}F$ (66°C ± 5°C).

4. If primer is to be used, it should be applied within 4 hours after surface preparation.

5. Option 2: Degrease with an industrial solvent such as MEK*; abrade with ScotchBrite[™] 7447 abrasive (or sandpaper of approximately 180 grit) and wipe again with solvent*.

Plastics/Rubber:

1. Wipe with isopropyl alcohol.*

- 2. Abrade using fine grit abrasives.
- 3. Wipe with isopropyl alcohol.*

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

References

Property

3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40066435/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/? gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=DP100 Clear

ISO Statement

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

Information

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