

February, 2019

3M[™] Scotch-Weld[™] Epoxy Adhesive DP460NS

Product Description

3M™ Scotch-Weld™ Epoxy Adhesive DP460NS is a high performance, two-part epoxy adhesive offering outstanding shear and peel adhesion, and very high levels of durability.

Product Features

- High shear strength
- 60 minute work life
- Easy mixing
- High peel strength
- Non sag (DP460NS)



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	Values	Temp C	Temp F
Base Color	White		
Accelerator Color	Amber		
Base Viscosity	150,000 - 275,000 cP	23C	72F
Accelerator Viscosity	8,000 - 14,000 cP	23C	72F
Base Resin	Ероху		
Accelerator Resin	Amine		
Base Net Weight	9.3 to 9.7 lb/gal		
Accelerator Net Weight	8.8 to 9.2 lb/gal		
Mix Ratio by Volume (B:A)	2:1		
Mix Ratio by Weight (B:A)	2:0.96		

Typical Mixed Physical Properties

Property	Values		Temp C	Temp F	Notes	Method	Test I Name	Dwell/C	Dwell CTimene Units	Substra	Substrate
Worklife, 20g mixed	60 min		23C	73F							
Worklife, 10g mixed	60 min		23C	73F							
Worklife, 5g mixed	60 min		23C	73F							
Time to Full Cure	4 hr	24 hr	23C	73F	The cure time is defined as that time required for the adhesive to achieve a minimum of 80% of the ultimate strength as measured by aluminum-aluminum OLS.						

Typical Mixed Physical Properties (continued)

Property	v Values	Temp C	Temp F	Notes	Method	Test I Name	Dwell/C	Dwell Curingne Units	Substra	Substrate at l otes
Rate of Strength Buildup 2hr	1 lb/in²	23C	72F	Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. \times 4 in. pieces of substrate. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubber, 0.125 in.; plastics, 0.125 in.	ASTM D1002	Overlag Shear Strengt		hr		0.005- 0.008in utmondline
Rate of Strength Buildup 4hr	46 lb/in²	23C	72F	Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubber, 0.125 in.; plastics, 0.125 in.	ASTM D1002	Overlar Shear Strengt		hr		0.005- 0.008in ultmondline
Rate of Strength Buildup 6hr	970 lb/in²	23C	72F	Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubber, 0.125 in.; plastics, 0.125 in.	ASTM D1002	Overlar Shear Strengt		hr		0.005- 0.008in ultmondline
Rate of Strength Buildup 1day	4500 lb/in²	23C	72F	Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubber, 0.125 in.; plastics, 0.125 in.	ASTM D1002	Overlag Shear Strengt		day	Etched Alumin	0.005- 0.008in unbondline

Typical Mixed Physical Properties (continued)

Property	y Values	Temp C	Temp F	Notes	Method	Test I Name	Dwell/C	 Substra	Substrate at N otes
Open Time	60 min			Maximum time allowed after applying adhesive to one substrate before bond must be closed and fixed in place. Cure times are approximate and depend on adhesive temperature. For hotmelts: The approximate bonding range of a 1/8" bead of molten adhesive on a non-metallic surface.					

Typical Performance Characteristics

Bell Peel	Temp C	Temp F
19 lb/in width	-55C	-67F
77 lb/in width	23C	72F
39 lb/in width	82C	180F

Property: Bell Peel Method: ASTM D3167 Substrate: Aluminum

Substrate Notes: 0.025in thick; 0.064in bondline

notes: Bell peel strengths were measured on 1/2 in. wide bonds at the temperatures noted. The testing jaw separation rate was 6 in. per minute.

Propert	yValue	s	Metho	Test o d Name	Dwell / Ciune Units	Temp	Temp F					ce ar <mark>ilitate</mark> s	Failure mode
Overlap Shear Strength 7day Aluminu	lb/in²			l Overl 2 Shear Stren	day	23C	73F	50%F	HAlumi	n 0 r 0 05 0.008 bondl	Bin	ADvædlæ/Mshkar (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	

Propert	yValue	s	Metho	Test o d Name	Dwell Time	Dwell / Ciurre Units		Temp F					ce r āt ādes	Failure mode
Overlap Shear Strength 7day Cold Rolled Steel	3600 lb/in²		-	l Overl 2 Shear Stren		day	23C	73F	50%R	HCold Rolled Steel	0.008	in	ADvædlæ/MAEKar (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	
Overlap Shear Strength 7day Copper	4400 lb/in²			l Overl 2 Shear Stren		day	23C	73F	50%R	НСорр	e.0.008 0.008 bondl	in	ADvædlæ/MEKar (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	

Propert	yValue	s	Metho	Test o d Name	Dwell Time	Dwell / Ciurre Units		Temp F		onment it Sorb st			ce r āt ādes	Failure mode
Overlap Shear Strength 7day Brass	3400 lb/in²		-	l Overl 2 Shear Stren		day	23C	73F	50%R	HBrass	0.008 0.008 bondl	in	ADvædlæ/MaEKar (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	
Overlap Shear Strength 7day Stainless Steel				l Overl 2 Shear Strend		day	23C	73F	50%R	HStainl Steel	200 22 0.008 bondl	in	ADvædlæ/MEKar (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	

Propert	:yValue:	S	Metho	Test odName	Dwell Time	Dwell / Ciure Units	Temp	Temp F		onment it Sur bst			ce r ākida s	Failure mode
Overlap Shear Strength 7day ABS	345 lb/in²		-	l Overl 2 Shear Stren		day	23C	73F	50%R	HABS	0.005 0.008 bondl	Bi M Vipe	Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	
Overlap Shear Strength 7day ABS	572 lb/in²		-	Overl Shear Stren		day	23C	73F	50%R	HABS			Overlap shear (OLS) strengths were measured on 1 in. wide /At@aide6lPeAlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	

Propert	yValue	s	Metho	Test o d Name	Dwell Time	Dwell / Ciure Units		Temp F			taSubst r ate tes		ce or <mark>akiode</mark> s	Failure mode
Overlap Shear Strength 7day Polyviny chloride (PVC)			-	l Overl 2 Shear Stren		day	23C	73F	50%R	₽olyv chlori (PVC)		Bi M Vipe	Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	SF
Overlap Shear Strength 7day Polyviny chloride (PVC)				l Overl 2 Shear Stren		day	23C	73F	50%R	tPolyv chlori (PVC)	de		Overlap shear (OLS) strengths were measured on 1 in. wide /Atadeolean specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	SF

Propert	:yValue:	s	Metho	Test odName	Dwell Time	Dwell / Ciun e Units		Temp F		-	ta\$ubst r atte tes		ce r <mark>akodes</mark>	Failure mode
Overlap Shear Strength 7day Polycarb (PC)			-	l Overl 2 Shear Stren		day	23C	73F	50%R	₩olyc (PC)	arth Andre O.OOE bondl	Bi M Vipe	Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	
Overlap Shear Strength 7day Polycarb (PC)				Overl Shear Stren		day	23C	73F	50%R	HPolyc (PC)			Overlap shear (OLS) strengths were measured on 1 in. wide /At@ade@ReAlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	

Propert	yValue	s	Metho	Test odName	Dwell Time	Dwell / Ciure Units		Temp F			ta\$ubst r atte tes		ce r āt ādies	Failure mode
Overlap Shear Strength 7day Acrylic (PMMA)	210 lb/in²	270 lb/in²		l Overl 2 Shear Stren		day	23C	73F	50%R	HAcryli (PMM		Bi M Vipe	Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	
Overlap Shear Strength 7day Fiber- Reinforc Plastic				l Overl 2 Shear Streng		day	23C	73F	50%R	Reinfo	O.OO5 or@@D& c bondl	Bi M Vipe	Overlap shear (OLS) strengths were measured on 1 in. wide 1/2 in. overlap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	

Propert	yValue	s	Metho	Test o d Name		Dwell / Ciur e Units	Temp C	Temp F		onment it Surb st			ce r <mark>akiote</mark> s	Failure mode
Overlap Shear Strength 7day Fiber- Reinforc Plastic			-	Overl Shear Stren		day	23C	73F	50%R			Bi M Vipe.	Overlap shear (OLS) strengths were measured on 1 in. wide AB2aide6BA1ap specimens. These bonds were made individually using 1 in. x 4 in. pieces of substrate except for aluminum. Two panels 0.063 in. thick, 4 in. x 7 in. of 2024T-3 clad aluminum were bonded and cut into 1 in. wide samples after 24 hour. The separation rate of the testing jaws was 0.1 in. per minute for metals, 2 in. per minute for plastics and 20 in. per minute for rubbers. The thickness of the substrates were: steel, 0.060 in.; other metals, 0.05-0.064 in.; rubbers, 0.125 in.; plastics, 0.125 in. Cohesive Failure (CF), Adhesive Failure (AF), Substrate Failure (SF)	SF
T-Peel Adhesion -55C Aluminu	lb/in		ASTM D1876	T- Peel Adhes	sion		-55C	-67F		Alumi	n0m032 thick	in	T-peel strengths were measured on 1 in. wide bonds. The testing jaw separation rate was 20 inches per minute.	
T-Peel Adhesion 23C Aluminu			ASTM D1876	l T- Peel Adhes	sion		23C	73F		Alumi	n 0 m032	in	T-peel strengths were measured on 1 in. wide bonds. The testing jaw separation rate was 20 inches per minute.	
T-Peel Adhesion 82C Aluminun			ASTM D1876	T- Peel Adhes	sion		82C	180F		Alumi	n 0 n 0 32	in	T-peel strengths were measured on 1 in. wide bonds. The testing jaw separation rate was 20 inches per minute.	

Electrical and Thermal Properties

Property	Values	Method	Temp C	Temp F	Test Condition
Volume Resistivity	3.25 × 10^15 Ω-cm	ASTM D257	23C	73F	

Electrical and Thermal Properties (continued)

Property	Values	Method	Temp C	Temp F	Test Condition
Coefficient of Thermal Expansion	74.44 × 10^-6 m/m/°C				Below Tg
Coefficient of Thermal Expansion	166 × 10^-6 m/m/°C				Above Tg

Handling/Application Information

Directions for Use

3M™ Scotch-Weld™ Epoxy Adhesives DP460 Off-White is supplied in dual syringe plastic duo-pak cartridges as part of the 3M™ EPX™ Applicator System. The duo-pak cartridges are supplied in 50 ml, 200 ml and 400 ml configurations. To use the 50 ml cartridge 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 simultaneous mixing of Part A and Part B is desired, attach the EPX mixing nozzle to the duo-pak cartridge and begin dispensing the adhesive.

With the 200 ml and 400 ml cartridges, the nozzle must be attached before dispensing any material to prevent unmixed adhesive from getting into the applicator cartridge holder. A small quantity of material should be discarded until uniform color, consistency of product and even flow is evident.

When mixing Part A and Part B manually, the components must be mixed in the ratio indicated in the typical uncured properties section. Complete mixing of the two components is required to obtain optimum properties.

Two-part mixing/proportioning/dispensing equipment is available for intermittent or production line use. These systems are ideal for line uses because of their variable shot size and flow rate characteristics and are adaptable to most applications.

Handling/Application Information (continued)

Surface Preparation

The following surface preparations were used for substrates described in this Technical Data Sheet.

A. Aluminum Etch

Optimized FPL Etch - 3M (test method C-2803)

1. Alkaline degrease – Oakite 164 solution (9-11 oz./gallon water) at 190°F ± 10°F (88°C ± 5°C) for 10-20 minutes. Rinse immediately in large quantities of cold running water (3M test method C-2802).

2. Optimized FPL Etch Solution (1 liter):

Material Amount

Distilled Water 700 ml plus balance of liter (see below)

Sodium Dichromate 28 to 67.3 grams Sulfuric Acid 287.9 to 310.0 grams

Aluminum Chips 1.5 grams/liter of mixed solution

To prepare 1 liter of this solution, dissolve sodium dichromate in 700 ml of distilled water. Add sulfuric acid and mix well. Add additional distilled water to fill to 1 liter. Heat mixed solution to 66 to 71°C (150 to 160°F). Dissolve

1.5 grams of 2024 bare aluminum chips per liter of mixed solution. Gentle agitation will help aluminum dissolve in about 24 hours.

To FPL etch panels, place them in the above solution at 150 to 160°F (66 to 71°C) for 12 to 15 minutes.

Note: Review and follow precautionary information provided by chemical suppliers prior to preparation of this etch solution.

- 3. Rinse immediately in large quantities of clear running tap water.
- 4. Dry air dry approximately 15 minutes followed by force dry at 140°F (60°C) maximum for 10 minutes (minimum).
- 5. Both surface structure and chemistry play a significant role in determining the strength and permanence of bonded structures. It is therefore advisable to bond or prime freshly primed clean surfaces as soon as possible after surface preparation in order to avoid contamination and/or mechanical damage. Please contact your 3M sales representative for primer recommendations.
- B. Oakite Degrease

Oakite 164 solutions (9-11 oz./gallon of water) at 190°F ± 10°F (88°C ± 5°C) for 2 minutes. Rinse immediately in large quantities of cold running water.

C. MEK/Abrade/MEK

Wipe surface with a methyl ethyl ketone (MEK) soaked swab, abrade and wipe with a MEK soaked swab.* Allow solvent to evaporate before applying adhesive.

D. Isopropyl Alcohol Wipe

Wipe surface with an isopropyl alcohol soaked swab.* Allow solvent to evaporate before applying adhesive.

E. Isopropyl Alcohol/Abrade/Isopropyl Alcohol

Wipe surface with an isopropyl alcohol soaked swab, abrade using clean fine grit abrasives, and wipe with an isopropyl alcohol soaked swab.* Then allow solvent to evaporate before applying adhesive.

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

Storage and Shelf Life

Store products at 60-80°F (15-27°C) for maximum shelf life.

These products have a shelf life of 24 months from date of manufacture in original containers at room temperature.

Trademarks

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

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~/3M-Scotch-Weld-Epoxy-Adhesive-DP460NS/?N=5002385+3293241658&rt=rud
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=DP460NS

3M™ Scotch-Weld™ Epoxy Adhesive DP460NS

Typical Physical Properties

Color: Off-White

Conditions

Test Name: Cured

Typical Cured Characteristics

Shore D Hardness: 81

Conditions Temp C: 23C Temp F: 73F Methods ASTM D2240

Family Group

	DP460 Off White	DP460NS
Color Test Name: Cured	Off-White	Off-White
Open Time (min)	60	60

ISO Statement

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

3M™ Scotch-Weld™ Epoxy Adhesive DP460NS

Information

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