

DURA-JAC SX PVC JACKETING SYSTEMS

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SPROULE MANUFACTURING COMPANY, INC.**DURA-JAC SX PVC JACKETING SYSTEMS****Dura-Jac SX PVC Jacketing Systems****Material Safety Data Sheet**

Complies with 29 C.F.R. 1910.1200

Section I. Identity of Product

Manufacturer: Proto Corp.
 Address: 10500 47th Street North
 Clearwater, Florida 33762
 Emergency Telephone Number: (727) 573-4665
 Information Telephone Number: (727) 573-4665
Date Prepared: 4/6/2004
Trade Name: PROTO-JAC

Section II. Hazardous Ingredients**Hazardous Components (Specific Chemical Identity; Common Name(2))****OSHA PEL ACGIH TLV[®] Other Limits****Recommended % (Optional):**

PVC Insulation Jacketing ~ Rigid PVC (Homopolymer)
 Compound, Poly (Vinyl Chloride, PVC, Vinyl

Formula:

Vinyl Resin* plus functional additives *(CH₂CH CL)

CAS Registry Number: N.A. to compounds

(Product manufactured with Homopolymer Polyvinyl Chloride Resin CAS Registry #9002-82-2) Formula additives are bound within polymer matrix, similar to rigid PVC water pipe and PVC home siding and are not expected to create any hazard when handled or applied.

Section III. Physical and Chemical Data**Solubility in Water:** None**Melting Point:** N.A.**Boiling Point:** N.A.**Vapor Pressure (mm HG.):** N.A.**Vapor Density (Air = 1):** N.A.**Evaporation Rate (Butyl Acetate = 1):** N.A.**Specific Gravity (H₂O = 1):** 1.3-1.5**Appearance & Odor:** Smooth, Hard, No Appreciable Odor.**Section IV. Fire/Explosion Hazard Data****Flash Point:** 753° F ASTM C 1929**Flammability Limits:** N.A.**LEL:** N.A.**UEL:** N.A.**Extinguishing media:** Water, Carbon Dioxide, or Foam

Unusual Fire or Explosion Hazards: No explosion hazards exist. HCl liberated during burning suffuses into the environment as it is generated. Heavy dilution with water is recommended.

Specific Fire Fighting Procedures: Use of self-contained breathing apparatus approved for acid vapors. In extreme emergencies where escape is essential, breathe and look through wet cloth covering face, in order to allow the water soaked cloth to absorb HCl generated from PVC burning and decomposing.

Section V. Reactivity Data**Stability:** Stable**Conditions to avoid:** Temperature above 450° F**Incompatibility:** None**Hazardous Decomposition Products:** Slow release of HCl when heated above 450° F**Hazardous Polymerization:** Will not occur**Section VI. Health Hazard Data****Route(s) of Entry:** Inhalation – N.A., Skin – N.A., Ingestion – N.A.

Health Hazards (Acute and Chronic): Under designed use conditions: none. There are no acute or chronic health hazards associated with the use of our product. Fire will lead to decomposition with the release of HCl.

Signs and Symptoms of Exposure: HCL liberated during burning will cause irritation of the eyes, skin, and/or respiratory tract. Under designed use conditions PVC is stable.

Medical Conditions Aggravated by Exposure:

Under designed use conditions, none. Under fire conditions, eye or respiratory medical conditions can be aggravated by exposure to HCl.

Emergency and First Aid Procedure: Upon HCl exposure, irrigate eyes and skin with cool water for at least 15 minutes. Remove to fresh air immediately – get medical attention if necessary

Section VII. Precautions for Handling

Steps to be taken in case material is released or spilled: Good housekeeping cleanup of PVC parts and discard in proper disposal units going to landfill areas or high temperature controlled incinerators, to protect from HCl fumes generated from burning PVC.

Waste Disposal Methods: See Above

Precautions to be taken in handling and storage: Do Not Store near flammable liquids or any area that could exceed 450° F to prevent formation of HCl.

Other Precautions: None other than good work practices, gloves to prevent cuts, safety goggles, etc.

Section VIII. Control Measures

Respiratory Protection: See Above – Self contained air packs in fire fighting conditions or where fumes are present

Ventilation: Local Exhaust – N.A., Special – N.A., Mechanical (General) – N.A., Other – N.A.

Protective Gloves: See Above**Eye Protection:** See Above

Other Protective Clothing or Equipment: No normal hazard – See Above – Normally not necessary. Workers discretion

Work/Hygiene Practices: See Above**Prepared by:** Proto Corp.**1-800-628-6998 ~ www.sproule-mfg.com**

SPROULE MANUFACTURING COMPANY, INC.

DURA-JAC SX PVC JACKETING SYSTEMS

Terms & Conditions

All prices are subject to change without prior notice

All prices F.O.B. Devault, Pennsylvania 19432

Payment Terms: 1% Ten Days/Net 30 Days from date of invoice, add 2% per month after 30 days

Warranty & Disclaimer

The information herein is accurate and reliable to the best of Sproule Mfg. Co., Inc.'s knowledge. But, because Sproule Mfg. Co., Inc. has no control over our products once they leave our plant, no representation or warranty, expressed or implied, either as to **Merchantability** or **Fitness for a particular purpose** is made as to the performance or results of an installation containing our product which extend the description on the face hereof. If the products otherwise fail to conform to the representations made herein, through no fault of the purchaser, purchaser's exclusive remedy and Sproule Mfg. Co., Inc.'s sole liability, shall at Sproule Mfg. Co., Inc.'s options, be the repair or replacement of the nonconforming products or parts thereof, F.O.B. our nearest shipping point. The warranty expires one year from date of purchase. **In no event shall Sproule Mfg. Co., Inc. be responsible or liable for any incidental, special or consequential damages, which might result from product failure.**

Returns & Allowances

Sproule Mfg. Co., Inc. considers most material to be specialty items, therefore returns will not be accepted. However, Sproule Mfg. Co., Inc. will examine each return request on a case by case basis and may allow some material to be returned. No returns of products will be accepted without prior written approval. Where returns are authorized due to causes for which Sproule Mfg. Co., Inc. is responsible, Sproule Mfg. Co., Inc. will assume all charges and the full purchase price will be credited. When returns are made for convenience of the purchaser at his/her request and these are approved in advance, in writing, by Sproule Mfg. Co., Inc., such products returned to the shipping points will be credited at the purchase price less all freight charges, including stopover charges absorbed by Sproule Mfg. Co., Inc. on the original shipment to the purchaser and full freight charges on the return. Sproule Mfg. Co., Inc. will also charge for handling and reconditioning. Credit will be based upon the quantity received at Sproule Mfg. Co., Inc. shipping point in resale condition, as determined by Sproule Mfg. Co., Inc., plus a 20% restocking charge.

Replacement Materials

Sproule Mfg. Co., Inc. will replace, at no charge to the customer, any and all incorrect or damaged material deemed to be the fault of Sproule Mfg. Co., Inc. Sproule Mfg. Co., Inc. will ship such material by the same or equal freight method as the original shipment. Sproule Mfg. Co., Inc. will not be responsible for any expedited freight expenses.

Title

Title to the products shall remain Sproule Mfg. Co., Inc.'s until paid in full by the purchaser. However, risk of loss shall vest in the purchaser at the time of delivery of the products to the carrier.

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Advantages of Sproule Dura-Jac SX PVC

- **Online Inventory** – Our inventory can be accessed through our website to give you quicker and more accurate response time to your customers.
- **Unique Inventory System** – Each ‘tube’ of Cut & Curl is labeled with size and quantity of pieces and then sealed with red (indicating SSL tape) or green (no SSL) tape for easier inventory control.
- **Limited Dust Attraction** – Each ‘tube’ of Cut & Curl will be wrapped with 50# Kraft Paper and labeled with the sizes and number of pieces according to our packaging chart.
- **Proper Sizing** – Each piece will be curled in the proper diameter tube. We have a full graduation of tube sizes.
- **Order Any Quantity** – Material may be ordered in any 4’ increment. Full carton quantities are **NOT** required.
- **Quick Response Time** – LoSmoke Cut & Curl can be available to be shipped or picked up within a few business days.
- **Experience** – We have over twenty years of Cut & Curl experience which has helped us develop efficient productions methods that yield a quality product.
- **Shipping** – Material can be picked up or shipped from our location in Devault, PA. Please inquire about our freight free programs.

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**SPROULE MANUFACTURING COMPANY, INC.
DURA-JAC SX PVC JACKETING SYSTEMS**

Effective: 5/2005

**PVC Cut & Curled Jacketing
Price List**

Outside Diameter in Inches	.020" Thick*	.030" Thick	Outside Diameter in Inches	.020" Thick*	.030" Thick
2.0	\$ 0.95	\$ 1.15	11.0	\$ 2.60	\$ 4.30
2.5	\$ 1.00	\$ 1.25	11.5	\$ 2.70	\$ 4.50
3.0	\$ 1.05	\$ 1.35	12.0	\$ 2.75	\$ 4.70
3.5	\$ 1.10	\$ 1.55	12.5	\$ 2.80	\$ 4.85
4.0	\$ 1.20	\$ 1.70	14.0	\$ 3.40	\$ 5.10
4.5	\$ 1.30	\$ 1.85	15.0	\$ 3.50	\$ 5.65
5.0	\$ 1.40	\$ 2.15	16.0	\$ 3.60	\$ 6.20
5.5	\$ 1.50	\$ 2.30	17.0	\$ 3.80	\$ 6.55
6.0	\$ 1.60	\$ 2.50	18.0	\$ 4.00	\$ 6.90
6.5	\$ 1.65	\$ 2.70	19.0	\$ 4.30	\$ 7.25
7.0	\$ 1.70	\$ 2.90	20.0	\$ 4.60	\$ 7.60
7.5	\$ 1.85	\$ 3.00	21.0	\$ 4.85	\$ 8.10
8.0	\$ 2.00	\$ 3.20	22.0	\$ 5.10	\$ 8.65
8.5	\$ 2.10	\$ 3.40	23.0	\$ 5.40	\$ 9.05
9.0	\$ 2.15	\$ 3.55	24.0	\$ 5.70	\$ 9.45
9.5	\$ 2.25	\$ 3.75	25.0	\$ 6.00	\$ 9.85
10.0	\$ 2.40	\$ 3.90	26.0	\$ 6.30	\$ 10.25
10.5	\$ 2.50	\$ 4.10	27.0	\$ 6.60	\$ 10.65

*All PVC Cut & Curled Jacketing will be 25/50 rated unless specified while ordering.

**All PVC Cut & Curled Jacketing sizes are available with
Self Sealing Lap (SSL) Tape. Add \$0.10 Net per LF.**

**Custom sized and colored (indoor use only) Cut & Curled
are also available. Please call for pricing and availability.**

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PVC Cut & Curled Jacketing
Packaging Data

Outside Diameter in Inches	Tubes per Carton	.020" Thickness			.030" Thickness		
		Pieces per Tube	LF per Carton	Weight per Carton	Pieces per Tube	LF per Carton	Weight per Carton
2.0	35	4	560	58	2	280	44
2.5	25	4	400	51	3	300	57
3.0	16	5	320	46	4	256	54
3.5	16	5	320	54	3	192	49
4.0	9	8	288	54	5	180	51
4.5	9	7	252	53	5	180	56
5.0	5	10	200	46	8	160	55
5.5	5	10	200	51	7	140	53
6.0	4	12	192	52	8	128	52
6.5	4	10	160	49	8	128	58
7.0	4	10	160	52	7	112	54
7.5	4	10	160	55	6	96	50
8.0	1	25	100	37	20	80	44
8.5	1	25	100	40	20	80	47
9.0	1	25	100	41	20	80	49
9.5	1	25	100	44	20	80	52
10.0	1	25	100	45	20	80	54
10.5	1	25	100	48	20	80	57
11.0	1	25	100	49	20	80	58
11.5	1	25	100	52	20	80	62
12.0	1	25	100	53	15	60	48
12.5	1	25	100	56	15	60	51
14.0	1	25	100	61	15	60	55
15.0	1	20	80	53	15	60	59
16.0	1	20	80	56	12	48	51
17.0	1	20	80	59	12	48	54
18.0	1	20	80	63	10	40	48
19.0	1	15	60	50	10	40	50
20.0	1	15	60	52	10	40	52
21.0	1	15	60	55	10	40	55
22.0	1	15	60	57	10	40	57
23.0	1	15	60	60	8	32	48
24.0	1	12	48	50	8	32	50
25.0	1	12	48	52	8	32	52
26.0	1	12	48	54	8	32	54
27.0	1	10	40	47	8	32	56

The chart above represents standard packaging in 12 X 12 X 48 boxes. Custom packaging requirement (100 LF per carton) are also available upon request. Please refer to the *General Packaging Data* on page 7 for detailed box and shipping information.

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PVC Cut & Curled Jacketing
Sizing Chart

NOMINAL INSULATION THICKNESS					
IPS	1"	1½"	2"	2 ½"	3"
½"	3.0	4.0	5.0	6.5	7.5
¾"	3.0	4.0	5.0	6.5	7.5
1"	3.5	4.5	5.5	6.5	7.5
1 ¼"	3.5	4.5	5.5	6.5	7.5
1 ½"	4.0	5.0	6.5	7.5	8.5
2"	4.5	5.5	6.5	7.5	8.5
2 ½"	5.0	6.5	7.5	8.5	9.5
3"	5.5	6.5	7.5	8.5	9.5
3 ½"	6.5	7.5	8.5	9.5	10.5
4"	6.5	7.5	8.5	9.5	10.5
4 ½"	7.5	8.5	9.5	10.5	11.5
5"	7.5	8.5	9.5	10.5	11.5
6"	8.5	9.5	10.5	11.5	12.5
7"	9.5	10.5	11.5	12.5	14.0
8"	10.5	11.5	12.5	14.0	15.0
9"	11.5	12.5	14.0	15.0	16.0
10"	12.5	14.0	15.0	16.0	17.0
11"	14.0	15.0	16.0	17.0	18.0
12"	15.0	16.0	17.0	18.0	19.0
14"	16.0	17.0	18.0	19.0	20.0
15"	17.0	14.0	15.0	16.0	17.0
16"	18.0	19.0	20.0	21.0	22.0
17"	19.0	20.0	21.0	22.0	23.0
18"	20.0	21.0	22.0	23.0	24.0
19"	21.0	14.0	15.0	16.0	17.0
20"	22.0	23.0	24.0	25.0	26.0
21"	23.0	24.0	25.0	26.0	27.0
22"	24.0	25.0	26.0	27.0	28.0
23"	25.0	14.0	15.0	16.0	17.0
24"	26.0	27.0	28.0	29.0	30.0
25"	27.0	28.0	29.0	30.0	31.0
26"	28.0	29.0	30.0	31.0	32.0

NOMINAL INSULATION THICKNESS					
CTS	1"	1½"	2"	2 ½"	3"
¾"	2.5	3.5	4.5	5.5	6.5
½"	3.0	3.5	4.5	5.5	6.5
¾"	3.0	4.0	5.0	6.5	7.5
1"	3.0	4.0	5.0	6.5	7.5
1 ¼"	3.5	4.5	5.5	6.5	7.5
1 ½"	3.5	5.0	5.5	6.5	7.5
2"	4.0	5.0	6.5	7.5	8.5
2 ½"	4.5	5.5	6.5	7.5	8.5
3"	5.0	6.5	7.5	8.5	9.5
3 ½"	5.5	6.5	7.5	8.5	9.5
4"	6.5	7.5	8.5	9.5	10.5
5"	7.5	8.5	9.5	10.5	11.5
6"	8.5	9.5	10.5	11.5	12.5

All Dura-Jac SX PVC Jacketing Cut to ASTM Dimensional Standards

Outside Diameter (OD) Overlap As Follows

2.0" to 6.0" OD - 1 ½" Overlap

6.5" to 14.0" OD - 2" Overlap

15.0"+ - 2 ½" Overlap

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PVC Roll Stock
Price List

Thickness	Length	Width	Sqaure Footage	Weight	List Price
.020"	100'	48"	400.0	60.0	\$ 195.00
.020"	50*	48"	200.0	30.0	\$ 97.50
.020"	<i>Custom</i>	48"	<i>Custom</i>	<i>Custom</i>	<i>Please Call</i>
.030"	100'	48"	400.0	90.0	\$ 290.00
.030"	50*	48"	300.0	67.5	\$ 145.00
.030"	<i>Custom</i>	48"	<i>Custom</i>	<i>Custom</i>	<i>Please Call</i>

***Partial Roll Charge - \$5.00 Net**
Pre-Curling Charge - \$5.00 Net
Reverse Curling Charge - \$5.00 Net

The chart above represents standard packaging in 7 X 7 X 48 boxes. Please refer to the *General Packaging Data* on page 7 for detailed box and shipping information.

PVC Cut Sheets
Price List

Thickness	Length	Width	Sqaure Footage	Weight	List Price
.020"	<i>Custom</i>	48"	<i>Custom</i>	<i>Custom</i>	<i>Please Call</i>
.030"	<i>Custom</i>	48"	<i>Custom</i>	<i>Custom</i>	<i>Please Call</i>

Cut sheets will be baked to erase any 'memory' in the PVC. Cut sheets can be shipped rolled in a box or flat. Additional freight charges may apply for 'flat' shipments.

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General Packaging & Shipping Data
Carton Dimensions

Carton	Length	Width	Height	Ft ³	per Pallet
A	17" (43.2 cm)	17" (43.2 cm)	12 ½" (31.8 cm)	1.97	35
B	17" (43.2 cm)	17" (43.2 cm)	25" (63.6 cm)	3.86	18
C	20" (50.8 cm)	26 ½" (67.3 cm)	21" (53.3 cm)	6.50	12
D	24" (61.0 cm)	30 ½" (77.5 cm)	24 ½" (62.2 cm)	10.80	6
E	26 ½" (67.3 cm)	34 ½" (87.6 cm)	30" (76.2 cm)	15.70	4
Q	26 ½" (67.3 cm)	34 ½" (87.6 cm)	21" (53.3 cm)	10.75	6
12 X 12	12" (30.5 cm)	12" (30.5 cm)	48" (121.9 cm)	4.00	12
7 X 7	7" (17.8 cm)	7" (17.8 cm)	48" (121.9 cm)	1.36	25

Shipping Methods

Will Call / Hot Shot Shipments: All Will Call and Hot Shot orders will be available for pickup during normal shipping hours unless arranged in advance. Will Call and Hot Shot shipments will be loose loaded unless specifically requested ahead of time. A \$5.00 handling fee will be charged per pallet.

United Parcel Service Shipments: Only carton types A, B, C, D, 12 X 12, and 7 X 7 may ship via UPS. B, C, D, and 12 X 12 cartons are subject to dimensional weight standards, and ship at a minimum of 30 lbs. (B and C cartons) or 70 lbs. (D Cartons) for Ground Service. All A, B, C, D, 7 X 7, and 12 X 12 cartons are subject to dimensional weight standards when shipping 3 Day Select[®], 2nd Day Air[®], and Next Day Air[®]. Please contact the factory for a freight quote for these services. In addition to the actual freight costs, a \$1.50 handling fee per carton will be charged for all UPS shipments.

Less Than Truckload (LTL) Shipments: All Sproule Dura-Jac SX PVC will ship at Class 55, Item 156830, Sub 1. All paperwork and pallets will be marked with 'Top Load Only' and 'Do Not Remove From Pallet.' All cartons will be stretch wrapped and securely banded to the pallet. In order to calculate an accurate shipping weight, Sproule will use a constant weight of 45 lbs. per pallet plus the weight of the cartons themselves. In addition to the actual freight costs, a \$5.00 handling fee will be charged per pallet.

Full Truckload Shipments: Unless otherwise requested, Sproule Mfg. Co., Inc. will floor (loose) load all Full Truckload Shipments. Sproule Mfg. Co., Inc. estimates one 'Full Truckload' as 3,600 cubic feet. Please allow for additional cubic footage due to packaging variations of partial cartons. All orders containing 50 or more cartons will have a cross off sheet included with the packing slip to ease the unloading process. In the cases of multiple order shipments, Sproule Mfg. Co., Inc. will make every attempt to keep orders grouped together within the truck, but to maximize the utilization of the trailer, Sproule Mfg. Co., Inc. cannot guarantee that orders will be kept together.

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