



REVISIONS				DOC. NO. SPC-F004 * Effective: 7/8/02 * DCP No: 1398				
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	B	Marking removed, spec revised	JAP	2/19/92	JC	2/19/92	JC	2/19/92
1199	C	Renamed -was PHS-0**-****-BLK	JWM	9/24/01	JC	10/16/01	JC	10/16/01

The **PHS** series is a flexible, adhesive-lined, flame retardant, thin wall polyolefin with an integral internal layer of special thermoplastic adhesive that bonds with a wide variety of rubber, plastics and metals, forming a permanent, non-drying, flexible and water proof barrier.

Shrink Ratio: 3:1 Shrink Temp: 121°C (259°F) Operating Temp: -55°C ~ 110°C (-67°F~230°F)

Dimensions				Standard Packages (Color: Black)					
Size	Expanded I.D. (Min)	Recovered I.D. (Max)	Recovered Nominal Wall Thickness	4 Foot Lengths (+1", -0")			6 Inch Lengths (± .125")		
				Type No.	Pcs	Total Footage	Type No.	Pcs	Total Footage
				1/8"	.125"	.040"	.040"	PHS-008-4025-BLK	25
3/16"	.187"	.062"	.040"	PHS-012-4025-BLK	25	100 FT	PHS-012-6024-BLK	24	12 FT
1/4"	.250"	.080"	.040"	PHS-016-4025-BLK	25	100 FT	PHS-016-6020-BLK	20	10 FT
3/8"	.375"	.120"	.055"	PHS-024-4025-BLK	25	100 FT	PHS-024-6016-BLK	16	8 FT
1/2"	.500"	.160"	.070"	PHS-032-4005-BLK	5	20 FT	PHS-032-6014-BLK	14	7 FT
3/4"	.750"	.250"	.085"	PHS-048-4005-BLK	5	20 FT	PHS-048-6012-BLK	12	6 FT
1"	1.000"	.320"	.100"	PHS-064-4005-BLK	5	20 FT	PHS-064-6008-BLK	8	4 FT
1 1/2"	1.500"	.510"	.100"	PHS-096-4005-BLK	5	20 FT	PHS-096-6005-BLK	5	2.5 FT

TYPICAL PROPERTIES

Physical

Tensile Strength 2100 PSI
 Ultimate Elongation 450%
 Longitudinal Change +1%, -15%
 Secant Modulus (2%) 17,000 PSI
 *Heat Aging Elongation 175%
 (168 hrs @ 175°C)
 *Heat Shock No dripping,
 (4 hrs @ 225°C) cracking, or flowing
 *Low Temp Flexibility No cracking
 (4 hrs @ -55°C)
 **Flexibility: 3
 Flammability: Self-extinguishing, meets UL 224
 All-Tubing Flame Test (jacket)

Electrical

Dielectric Strength 700 V/mil
 Volume Resistivity 10¹⁴ ohm-cm

Chemical

Corrosive Effect Non-corrosive
 Water Absorption 0.3%
 Fungus Resistance Non-nutrient
 Fluid Resistance Excellent
 Applicable Specifications: MIL-DTL-23053/4 Class 3

Adhesive

Peel Strength, pli
 Polyethylene 30
 PVC 10
 Lead 15
 Aluminum 40



Corrosive Effect Non-corrosive

*Outer wall only.

**Flexibility: The materials are rated on a scale of 1~10. (1=most flexible and 10=most rigid)

The technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

SPC-F004.DWG

TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	DRAWN BY:	DATE:	DRAWING TITLE:			
	JAP	2/19/92	High Shrink-Adhesive Lined, Polyolefin Tubing			
	CHECKED BY:	DATE:	SIZE	DWG. NO.	ELECTRONIC FILE	REV
	JC	2/19/92	A	TA-409	TA-409.dwg	C
	APPROVED BY:	DATE:	SCALE: NTS		U.O.M.: INCHES [mm]	SHEET: 1 OF 1
	JC	2/19/92				

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