## **CPA 300**

INSULATE SEAL PROTECT









#### THIN WALL ADHESIVE LINED CROSS-LINKED POLYOLEFIN

ADHESIVE LINED HEAT SHRINK TUBING IDEAL FOR APPLICATIONS WHERE BOTH EXCEPTIONAL FLAME RETARDANCY AND ENVIRONMENTAL SEALING CAPABILITIES ARE REQUIRED

#### **FEATURES AND BENEFITS**

- 3:1 shrink ratio
- Highly flame retardant
- High shrink ratio allows for coverage of irregularly shaped connectors and components
- Adhesive liner bonds to plastics, rubber, neoprene, steel and polyethylene
- Superior sealing against water, moisture and other contaminants
- Superior protection for ring terminals without excessive adhesive flow
- Continuous operating temperature: -55°C to 125°C
- Shrink temperature: 120°C
- Standard colors: Black, Red & White

#### **STANDARDS**

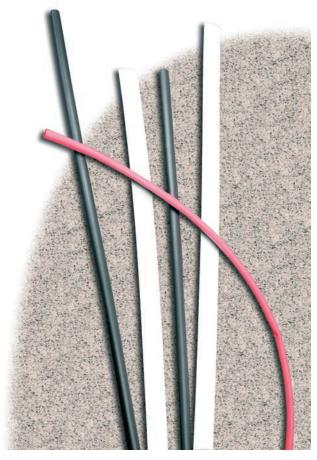
- UL 224, 125°C
- CSA C22.2 No.198.1 125°C
- SAE-AMS-DTL-23053/4, Class 3
- Automotive OEM Approvals

#### TYPICAL APPLICATIONS

- Environmental sealing of simple in-line splices
- Strain relief and sealing of connectors and terminals
- Mechanical protection of components

#### **ORDERING**

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Please specify the product name and order reference number. Order Example:
  CPA 300, 0125, black, 48 in lengths





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#### **DIMENSIONS**

	Expanded		Recovered							
Order Number	Internal Diameter (min.) D		Internal Diameter (max.) d		Total Wall Thickness (nom.) W		Meltable Wall Thickness (nom.)		Lengths (Sticks)	
	mm	in	mm	in	mm	in	mm	in	m	in
0125	3.2	1/8	1.0	0.040	1.0	0.040	0.5	0.020	1.2	48
0187	4.7	3/16	1.5	0.060	1.0	0.040	0.5	0.020	1.2	48
0250	6.4	1/4	2.0	0.080	1.0	0.040	0.5	0.020	1.2	48
0375	9.5	3/8	3.2	0.125	1.5	0.060	0.7	0.027	1.2	48
0500	12.7	1/2	4.1	0.160	1.8	0.070	0.8	0.030	1.2	48
0750	19.1	3/4	6.4	0.250	1.8	0.070	0.8	0.030	1.2	48
1000	25.4	1	8.1	0.320	2.5	0.100	1.0	0.040	1.2	48
1250	31.8	1¼	10.6	0.416	2.5	0.100	1.0	0.040	1.2	48
1500	39.9	1½	13.0	0.510	2.5	0.100	1.0	0.040	1.2	48

#### **TECHNICAL DATA**

12011110/12 2/11/1				
PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL PERFORMANCE	UNITS
PHYSICAL				
Tensile Strength	ASTM D638	1,300 (9.0) minimum	2,342 (16.15)	psi (MPa)
Elongation	ASTM D638	250 minimum	452	percent
Cold Impact	4 hrs at -67 °F (-55 °C)	No cracking	No cracking	
Heat Shock	4 hrs at 482 °F (250 °C)	No cracks, flowing or dripping	No cracks, flowing or dripping	
Tensile Strength	ASTM D412	900 (6.2) minimum	1,228 (8.47)	psi (MPa)
ELECTRICAL				
Dielectric Strength	ASTM D2671	200 (7.9) minimum	762 (30)	volts/mil (Kv/mm)
CHEMICAL		•		
Corrosion	16 hrs at 250 °F (121 °C)	No corrosion	No corrosion	
Water absorption	24 hrs at 73 °F (23 °C)	1.0 maximum	0.44	percent
Flammability	ASTM D2671, Procedure B	Self extinguishing 1 minute; 25% maximum flag burnt	Pass	
Fluid resistance: (Hydraulic fluid (petroleum base), JP-8, Lubricating oil, 5 percent NaCl, Deicing fluid)	24 hrs immersion at 75 °F (24 °C)			
Tensile strength	ASTM D412	900 (6.2) minimum	1,228 (8.47)	psi (MPa)
Dielectric strength	ASTM D2671	200 (7.9) minimum	762 (30)	volt/mil (Kv/mm)
Fungus resistance	ASTM G21	No growth	No growth	

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