

# ASTRA® 077 GENERAL PURPOSE TUBING TEST DATA

## Polyvinylchloride Tubing

Japanese Industrial Standard: C-2410

Ford ESB M4D 103A

National Highway Safety Administration D.O.T. FMVSS 302

### DESCRIPTION

ASTRA 077 tubing is a specially formulated polyvinylchloride tubing designed for continuous operation in the -35°C to +85°C temperature range. It is self extinguishing and does not support combustion. As shown in the chart to the right, ASTRA 077 has good oil resistance and outstanding deformation resistance at 120°C. It remains flexible at extremely low temperature, making it ideal for automotive and recreational vehicle harnesses. It is available in both AWG and METRIC sizes on request.

### APPLICATIONS

- Automotive harnesses
- Snowmobiles
- Aircraft
- Campers
- Motorcycles
- Motor boats
- All terrain vehicles (ATV)
- Truck harnesses
- Boat trailers
- Motor homes

### STANDARD COLORS

Black. Other colors available; clear not available.

Standard package - spools.

Can be cut to customer requirements.

Standard sizes 24 to 1".

### TYPICAL PROPERTIES

Property	Test Method	Typical Value
Tensile Strength, psi	MIL-I-631	2400
Ultimate Elongation %	MIL-I-631	350
Cold Brittleness	UL 224	-35°C
Heat Aging, 168 h @ 121°C	UL 224	110% tensile retention 80% elongation retention
Oil Resistance	4 h @ 70°C ASTM #2 oil	70% tensile retention 70% elongation retention
Flame Resistance	Vertical flame exposure Extinguish within 15 sec	Pass
Deformation	UL 224 120°C, 1 hour	0%
Insulation Resistance	ASTM D149	2x10 <sup>8</sup> ohm-cm
Specific Gravity	ASTM D792	1.34
Hardness	Shore A ASTM D676	80