

## PVC RIGID NONMETALLIC CONDUIT GUIDE SPECIFICATION Schedule 40 - Schedule 80 - Fittings

### **Schedule 40**

#### **1.0 Product:**

PVC Schedule 40 Conduit for application underground, encased or exposed applications in accordance with the National Electrical Code (Article 347).

#### **2.0 Product Requirements:**

Conduit shall be Carlton Plus 40, rated for use with 90° C conductors, UL Listed or approved equal. Material shall comply to NEMA Specification

TC-2 (Conduit), TC-3 (Fittings) and UL 651 (Conduit) and 514b (Fittings).

**2.1** Conduit and fittings shall carry a UL label (Conduit - on each 10 foot length; Fittings - stamped or molded on each fitting).

**2.2** Conduit and fittings shall be identified for type and manufacturer and shall be traceable to location of plant and date manufactured. The markings shall be legible and permanent.

**2.3** The Conduit shall be made from polyvinyl chloride compound (recognized by UL) which includes inert modifiers to improve weatherability and heat distortion. Clean rework material, generated by the manufacturer's own conduit production, may be used by the same manufacturer, provided the end products meet the requirements of this specification.

**2.4** the conduit and fittings shall be homogeneous plastic material free from visible cracks, holes or foreign inclusions. The conduit bore shall be smooth and free of blisters, nicks or other imperfections which could mar conductors or cables.

**2.5** Conduit, fittings and cement shall be produced by the same manufacturer to assure system integrity.

#### **3.0 Testing and Acceptance Criteria:**

Conduit and fittings shall be tested in accordance with the testing requirements defined in NEMA TC-2, NEMA TC-3 and UL-651 and 514. The acceptance criteria shall be given in the same standards.

**3.1** All conduit and fittings shall be solvent cemented in applications in accordance with instructions from the manufacturer.

### **Schedule 80**

#### **4.0 Product:**

**4.1** PVC Schedule 80 Conduit for application in underground, encased or exposed applications in accordance with the National Electrical Code (Article 347) .

#### **5.0 Product Requirements:**

Conduit shall be Carlton Plus 80, rated for 90° C conductors, UL Listed or approved equal.

Material shall comply to NEMA Specification TC-2 (Conduit) and TC-3 (Fittings) and UL Standards 651 (Conduit) and 514b (Fittings).

**5.1** The conduit and fittings shall carry a UL label (Conduit - on each 10 foot length; Fittings - stamped or molded on each fitting).

**5.2** Conduit and fittings shall be identified for type and manufacturer and shall be traceable to location of plant and date manufactured. The markings shall be legible and permanent.

**5.3** The conduit shall be made from polyvinyl chloride compound (recognized by UL) which includes inert modifiers to improve weatherability and heat distortion. Clean rework material, generated by the manufacturer's own conduit production, may be used by the same manufacturer, provided end products meet the requirements of this specification.

**5.4** The conduit and fittings shall be homogeneous plastic free from visible cracks, holes or foreign inclusions. The conduit bore shall be smooth and free of blisters, nicks or other imperfections which could mar conductors or cables.

**5.5** Conduit, fittings and cement shall be produced by the same manufacturer to assure system integrity.

#### **6.0 Testing and Acceptance Criteria:**

Conduit and fittings shall be tested in accordance with the testing requirements defined in NEMA TC-2, NEMA TC-3 and UL-651 and 514. The acceptance criteria shall be as given in the same standards.

**6.1** All conduit and fittings shall be solvent cemented in applications in accordance with instructions from the manufacturer.