

TOXICITY

CHAMPION FLAME SHIELD® conduit does not contain any compounds that can release halogens - bromine or chlorine - when burning.

Gases	Values (max P.P.M.)
Hydrogen Chloride	0
Hydrogen Bromide	0
Hydrogen Cyanide	<1
Hydrogen Sulphide	0
Ammonia	0
Oxides of Nitrogen	<5
Carbon Dioxide	<10,500
Carbon Monoxide	<350

COLOR

Natural color is dark reddish brown, almost black.

DEFLECTION

Deflection is always determined at midspan.

The empirical formula for deflection is:

$$D = \frac{131 \cdot W \cdot L^4}{E(OD^4 - ID^4)}$$

Where: D = Midspan deflection (in.)

OD = Outside diameter of conduit (in.)

ID = Inside diameter of conduit (in.)

E = Modulus of elasticity of conduit (psi), which is 1,200,000 for phenolic fiberglass conduit

L = Distance between hangers (ft.)

W = Total weight of cable and conduit (lbs/ft.)

It is recommended that midspan deflection never exceeds $\frac{5}{16}$ inches **(16 mm)**.