

Drossbach Technical Data Sheet For Flexible Convoluted Tubing / Conduit



Data Sheet:	TD-019 "VE" Flame Retardant Polyethylene
Revision:	3
Date:	1-Dec-09
Base Material:	Flame Retardant Polyethylene
Material Code:	VE

Our commitment to quality is our commitment to success

Product Description

Flexible convoluted tubing / conduit manufactured from a flame retardant polyethylene resin rated as V2 according to UL-94

Performance Enhancers

Flame Retardant	Yes
UV Inhibitor	No
Heat Stabilizer	Yes

Performance Characteristics

Flexibility	Excellent
Abrasion Resistance	Good
Chemical Resistance	Good
Recommended Operating Upper Temperature	+200°F (93°C)
Recommended Operating Lower Temperature	-40°F (-40°C)

Typical Physical Properties

Typical Physical Properties	Test Method	Value	Units
Specific Gravity/Density	ASTM D792	1.005	-
Elongation @ Break	ASTM D638	945	%
Elongation @ Yield	ASTM D638	167	%
Tensile Strength @ 25C	ASTM D638	14.99619	MPa
2% Secant Modulus	-	-	-
Flexural Modulus	ASTM D790	240	MPa
Melting Point	ASTM D3418	239 (115)	°F (°C)
Notched Izod Impact Test	ASTM D256	10	ft lb/in
Heat Deflection Temperature @66psi	ASTM D648	104 (40)	°F (°C)
Heat Deflection Temperature @264psi	ASTM D648	122 (50)	°F (°C)

Material Certifications

Delphi / Packard	-
Ford	-
General Motors	-
Chrysler	-
ASTM	-
Underwriters Laboratory	UL-94 V2 @ 1.5 mm
FMVSS 302	Max. Burn rate of 101.2mm / min. (1.0 mm thick) Self-extinguishing

Notes

- (1) Drossbach does not claim or state any UV life or warranty for product manufactured with a "UV inhibitor" additive as we do not have any control over its end use environment.
- (2) All "UL" and FMVSS 302 flame ratings are for the resin used to manufacture our product, not for our end product. The ratings are created by testing standard "UL" and "FMVSS" plaque specimens, not tubing samples.
- (3) All Drossbach's products are compliant with the European Union's Directive 2002/95/EU (RoHS) and the REACH Directive.
- (4) Only product designated as **UL 94 "V0"** in the Material Certification section above can be certified as **non-Halogenated product**.
- (5) If a product is designated as flame retardant but has no material certification listed, this product is a Drossbach internally blended material blended with a flame retardant additive. It is tested to an internal flame test (DR-006) that holds no claimed warranty.



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