

Drossbach Technical Data Sheet For Flexible Convoluted Tubing / Conduit



Data Sheet:	TD-008 "NP" Nylon	
Revision:		6
Date:		15-Jan-13
Base Material:		Nylon
Material Code:		NP

Our commitment to quality is our commitment to success

Product Description

Flexible convoluted tubing / conduit manufactured from a nylon 6 co-polymer, impact modified resin.

Performance Enhancers

Flame Retardant	Yes
UV Inhibitor	No
Heat Stabilizer	Yes

Performance Characteristics

Flexibility	Excellent
Abrasion Resistance	Excellent
Chemical Resistance	Excellent
Recommended Operating Upper Temperature	+300°F (149°C)
Recommended Operating Lower Temperature	-40°F (-40°C)

Typical Physical Properties

Typical Physical Properties	Test Method	Value	Units
Specific Gravity/Density	ASTM D792	1.07	-
Elongation @ Break	ASTM D638	>100	%
Elongation @ Yield	ASTM D638	7	%
Tensile Strength @ 25C	ASTM D638	34	MPa
2% Secant Modulus	-	-	-
Flexural Modulus	ASTM D790	610	MPa
Melting Point	ASTM D3418	428 (220)	°F (°C)
Notched Izod Impact Test	ASTM D256	640	J/m
Heat Deflection Temperature @66psi	ASTM D648	255 (124)	°F (°C)
Heat Deflection Temperature @264psi	ASTM D648	117 (47)	°F (°C)

Material Certifications

Delphi / Packard	M-2170
Ford	-
General Motors	GMP.PA6.003, GM 7001-M PA6
Chrysler	MS DB41 CPN 2785
ASTM	D4066 PA260
Underwriters Laboratory	UL-94 HB @ 1.5 mm
FMVSS 302	Max. Burn rate of 101.2mm / min. (1.0 mm thick)
Other	-

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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