

* Drossbach IMDS submissions are available for all products upon
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	Material		Delphi	Ford	General	Chrysler	ASTM	Flame	UV		stance	Flexibility
	& Code	Data Sheet	(Packard)		Motors			Rating 4	Inhibitor	Chemical	Abrasion	
	Polyethylene - * Continuous Operating Temperature -40 to +85C (-40 to +185F). *Short Term -40 to 93C (-40 to +200F)											
	DE	TD-013							No	Good	Excellent	Excellent
	HV	TD-015							No	Good	Excellent	Excellent
	KE	TD-018	M-2092						No	Good	Good	Excellent
	PE	TD-013							No	Good	Good	Excellent
	FE	TD-003						DR-006-SE	No	Good	Good	Excellent
2	VE	TD-019						UL-94 V2	No	Good	Good	Excellent
1 2	V0	TD-014						UL-94 V0	No	Good	Good	Excellent
	SE	TD-002		ESB-M4D152-A					No	Good	Good	Excellent
6	UC	TD-017							Yes	Good	Good	Excellent
	Nylon - * Continuous Operating Temperature -40 to +125C (-40 to +257F). *Short Term -40 to 149C (-40 to +300F)											
2	ND	TD-007		WSS-M4D933-A1 ES-XU5T-14A099-AA		MS-DB41 CPN 4059	D4066PA283	FMVSS 302	No	Good	Good	Good
32	NP	TD-008	M-2170		GMP.PA6.003 GM 7001-M-PA6	MS-DB41 CPN-2785	D4066PA260	UL-94 HB FMVSS 302	No	Excellent	Excellent	Excellent
4	NU	TD-012							Yes Note	Good	Good	Good
- 1		•	* Continuo	ous Operating Ten	nperature -40 to	-125C (-40 to	+257F). *Sh	ort Term -40	) to 1350	C (-40 to +2	:75F)	
2	FP	TD-023						DR-006-SE	No	Good	Good	Excellent
	PP	TD-009							No	Excellent	Good	Good
23	P0	TD-004					(3	UL-94 V0	No	Good	Good	Excellent
	RP	TD-011	M-2262-001			MS-DB532-B CPN-2796			No	Excellent	Good	Excellent
2	VP	TD-010						UL-94 V2	No	Good	Good	Excellent
Polyester - *Continuous Operating Temperature -40 to +150C (-40 to +302F). *Short Term -40 to +170C (-40 to + 338F)												
	PT	TD-001	M-2373						No	Excellent	Excellent	Excellent
ι							1	1	_			

\* The "Continuous Operating Temperatures" for each material is considered to be a minimum of 3000 hrs at the stated temperatures. The "Short Term" Operating temperatures is considered to be minimum of 168Hrs @ the stated temperatures

All Drossbach's products are compliant with the European Union's Directive 2002/95/EU (RoHS), REACH Regulation and Conflict Minerals Initiative

## Products Listed are standard products. Unique sizes, materials & colours are available but are special order and subject to set-up & minimum quantities costs. Notes:

- 1)The "V0" product is designated non-Halogenated product
- 2 All UL & FMVSS 302 flame ratings are for the resin used to manufacture our product, not our end product. Testing of standard plaque not tubing.
- (3) This product has been tested and will meet the requirements of UL 94 V0 or HB (as stated in the above chart). This product has not been certified yet By UL but Documentation is available showing test results complying to the UL test.
- (4) Based on our "UV" stabilizer supplier recommendation, the percentage used allows for a 3-5 Year weather able product.
- (\$) This product is manufactured with a "UV inhibitor" additive. Drossbach does not claim or state any UV life or warranty for this product (see TDS-024)
- (6) This product has limited "UV" protection created by increased amount of Carbon Black blended into it's composition (see TDS-017).

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DRAWING#: DWCS-001

**REV#: 28** 

Product Dimensions											
Nominal	Dia.	Units			Dimens	sion "B"	Dim. "C"	Dim. (E)			
ID	Code		ll ll	D	OD		Wall	Corr Ht.			
Diameter			Min	Max.	Min	Max.	Min	Ref.			
1/4"	014	mm	6.02	6.76	9.45	10.16	0.11	1.71			
(6 mm)		Inches	0.237	0.266	0.372	0.400	0.004	0.067			
1/4"	07L	mm	6.50	7.01	9.47	10.11	0.11	1.52			
(7 mm)		Inches	0.256	0.276	0.373	0.398	0.004	0.060			
3/8"	038	mm	8.66	9.65	12.59	13.36	0.12	1.91			
(9 mm)		Inches	0.341	0.380	0.496	0.526	0.005	0.075			
3/8"	09L	mm	9.35	10.11	12.56	13.32	0.12	1.61			
(9 mm)		Inches	0.368	0.398	0.494	0.524	0.005	0.063			
7/16"	716	mm	10.13	11.10	14.46	15.16	0.12	2.10			
(10 mm)		Inches	0.399	0.437	0.569	0.597	0.005	0.083			
1/2"	13L	mm	11.97	13.07	16.39	17.31	0.12	2.17			
(13 mm)		Inches	0.471	0.515	0.645	0.681	0.005	0.085			
1/2"	012	mm	12.01	13.11	16.87	17.78	0.12	2.38			
(13 mm)	L	Inches	0.473	0.516	0.664	0.700	0.005	0.094			
5/8"	16L	mm	15.11	16.08	18.59	19.56	0.12	1.74			
(16 mm)		Inches	0.595	0.633	0.732	0.770	0.005	0.069			
5/8"	058	mm	15.32	16.23	20.36	21.26	0.12	2.45			
(16 mm)		Inches	0.603	0.639	0.802	0.837	0.005	0.099			
5/8"	17F	mm	16.40	16.60	21.50	22.00	0.22	2.63			
(17 mm)		Inches	0.646	0.654	0.846	0.866	0.009	0.103			
5/8"	17L	mm	16.25	17.15	20.42	21.32	0.12	2.09			
(17 mm)		Inches	0.640	0.675	0.804	0.839	0.005	0.082			
5/8"	18L	mm	16.73	17.75	21.69	22.59	0.12	2.45			
(18 mm)		Inches	0.659	0.699	0.854	0.889	0.005	0.096			
3/4"	034	mm	17.96	19.28	24.13	25.12	0.12	3.00			
(19 mm)	101	Inches	0.707	0.759	0.950	0.989	0.005	0.118			
3/4"	19L	mm	18.97	19.86	23.10	23.86	0.12	2.03			
(19 mm)	070	Inches	0.747	0.782	0.909	0.939	0.005	0.080			
7/8"	078	mm	21.54	22.81	28.12	29.24	0.13	3.25			
(22 mm) 1"	001	Inches	0.848	0.898	1.107	1.151	0.005	0.128			
•	23L	mm	22.78	24.10	27.36	28.17	0.15	2.16			
(23 mm) 1"	400	Inches	0.897	0.949	1.077	1.109	0.006	0.085			
	100	mm	25.91	27.16	31.78	33.13	0.15	2.96			
(25 mm) 1 1/8"	110	Inches	1.020	1.069	1.251	1.304	0.006	0.117			
	118	mm	28.50	29.86 1.176	34.58	35.88	0.15	3.03			
(29 mm) 1 1/4"	114	Inches	1.122 30.45	31.93	1.361	1.413 38.10	0.006 0.15	0.119 3.11			
	114	mm	1.199	1.257	1.446	1.500	0.15	0.123			
(30 mm) 1 1/2"	112	Inches	39.78	41.83	47.42	49.45	0.006	3.82			
	''2	Inches	1.566	1.647	1.867	1.947	0.15	0.150			
(40 mm) 2"	200	mm	50.01	51.77	58.04	60.66	0.006	4.23			
(51 mm)	200	Inches	1.969	2.038	2.285	2.388	0.26	0.167			
2 1/2"	212	mm	62.15	63.90	70.39	73.01	0.011	4.34			
(64 mm)	212	Inches	2.447	2.516	2.771	2.874	0.26	0.171			
3 1/2"	312	mm	88.41	90.41	97.00	100.00	0.011	4.55			
(89 mm)	312	Inches	3.481	3.559	3.819	3.937	0.28	4.55 0.179			
(03 111111)		miches	J.40 I	5.559	3.019	J.3J/	0.011	0.179			

**Product Dimensions** 

Dimension "D" Cut-To-Length Specifications

Less than or equal to 400mm or 15.75" Greate +/- 10mm or 0.394" +/- 2

Greater than 400mm or 15.75" +/- 2.5% of target length

## Note:

- (A) Product tolerances are general and are designed to encompass all available materials. Tighter tolerances may be available for a specific material.
- (B) Product with an I.D. > 1.0 " will not meet the std. cut length tolerances listed above. Special cut length tolerance will be given on a case to case basis.

All dimensions are in both Imperial and Metric. Do Not Scale Drawing.



## **Convoluted Tubing**

MATERIALS: N/A FINISH: N/A SCALE: N/A
INTERPRET GEOMETRIC N/A Tol.: XX --- +/APPROVAL: Janet Mann APPROVAL: Veil Coleman DATE:06/13/16