

Product Specifications * Drossbach MDS submissions are available for all products upon request.

	Produ	ct Spe	cificatio	ns Drossb	ach <u>imps submi</u>	ssions are av	valiable for all	products up	on reque	est.		
	Material & Code	Data	Delphi (Packard)	Ford	General Motors	Chrysler	ASTM	Flame Rating		Resis Chemical	stance Abrasion	Flexibility
		Sheet	(1 0.01.0					2	4	** See Note		
	Polyethy	Polyethylene - * Continuous Operating Temperature -40 to +85C (-40 to +185F). *Short Term -40 to 93C (-40 to +200F)										
	DE	TD-013							No	Good	Good	Excellent
	HV	TD-015							No	Good	Good	Good
	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
) <u> </u>		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
(4)	UV	TD-024							Yes	Good	Good	Excellent
		* Conti	nuous Ope	rating Temperatur	e -40 to +125C (-	40 to +257F).	*Short Term	-40 to 1490	(-40 to	+300F)		
2)3)	ND	TD-007		WSS-M4D933-A1 ES-XU5T-14A099-AA		MS-DB41 CPN 4059	D4066PA283	UL-94 HBG FMVSS 302	No	Good	Excellent	Good
23	NP	TD-008	M-2170		GMP.PA6.003 GM 7001-M-PA6	MS-DB41 CPN-2785	D4066PA260	UL-94 HB FMVSS 302		Good	Excellent	Good
4	NU	TD-012							Yes 4	Good	Excellent	Good
Polypropylene - * Continuous Operating Temperature -40 to +125C (-40 to +257F). *Short Term -40 to 135C (-40 to +275F)												
	FP	TD-023						DR-006-SE	No	Good	Good	Good
	PP	TD-009							No	Good	Good	Good
2)(3)	P0	TD-004						UL-94 V0	No	Good	Good	Good
	RP	TD-011	M-2262-001			MS-DB532-B CPN-2796	3		No	Good	Good	Excellent
2	VP	TD-010						UL-94 V2	No	Good	Good	Good
Polyester - *Continuous Operating Temperature -40 to +150C (-40 to +302F). *Short Term -40 to +170C (-40 to + 338F)												
	PT	TD-001	M-2373						No	Good	Good	Excellent

- * 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
- ** Chemical Ratings are just general descriptive ratings. For more detailed Chemical Resistance information see <u>Drossbach,s Chemical Resistance</u> <u>charts (CR-XXX series)</u>. These Documents can be cross referenced using Drossbach's Technical Data sheets listed above. Both documents (TD Sheets and Chemical Resistance charts) can be downloaded from our website <u>www.drossbach.com</u> or by request.
- All Drossbach's products are compliant with the European Union's Directive 2002/95/EU (RoHS), REACH Regulation and Conflict Minerals Initiative
 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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REV#: 31

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Nominal ID	Dia. Code	Units	Dimension "A" ID		Dimension "B" OD		Dim. "C" Wall	Dim. (E) 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)	=10	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)	101	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)	212	Inches	0.471	0.515	0.645	0.681	0.005	0.085	
1/2"	012	mm Inches	12.01 0.473	13.11 0.516	16.87 0.664	17.78 0.700	0.12 0.005	2.38 0.094	
(13 mm) 5/8"	16L							1.74	
(16 mm)	IOL	mm Inches	15.11 0.595	16.08 0.633	18.59 0.732	19.56 0.770	0.12 0.005	0.069	
5/8"	058	mm	15.32	16.23	20.36	21.26	0.005	2.45	
(16 mm)	036	Inches	0.603	0.639	0.802	0.837	0.12	0.099	
5/8"	17F	mm	16.40	16.60	21.50	22.00	0.003	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)		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)		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)		Inches	0.848	0.898	1.107	1.151	0.005	0.128	
1"	23L	mm	22.78	24.10	27.36	28.17	0.15	2.16	
(23 mm)		Inches	0.897	0.949	1.077	1.109	0.006	0.085	
1"	100	mm	25.91	27.16	31.78	33.13	0.15	2.96	
(25 mm)		Inches	1.020	1.069	1.251	1.304	0.006	0.117	
1 1/8"	118	mm	28.50	29.86	34.58	35.88	0.15	3.03	
(29 mm)		Inches	1.122	1.176	1.361	1.413	0.006	0.119	
1 1/4"	114	mm	30.45	31.93	36.73	38.10	0.15	3.11	
(30 mm)	110	Inches	1.199	1.257	1.446	1.500	0.006	0.123	
1 1/2"	112	mm	39.78	41.83	47.42	49.45	0.15	3.82	
(40 mm) 2"	200	Inches	1.566	1.647	1.867	1.947	0.006	0.150	
_	200	mm	50.01 1.969	51.77	58.04	60.66 2.388	0.28	4.23	
(51 mm) 2 1/2"	212	Inches	62.15	2.038	2.285 70.39		0.011 0.28	0.167 4.34	
(64 mm)	212	mm Inches	2.447	2.516	2.771	73.01 2.874	0.28	4.34 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	0.26	0.179	
(03 111111)		inches	J.40 I	3.009	3.019	J.531	0.011	0.179	

Dimension "D" Cut-To-Length Specifications for Product <20' (<6096 mm) Product >20' (>6096 mm) in length is considered to be "Bulk" Product

Less than or equal to 400mm or 15.75" Greater than 400mm(15.75") < 6096 mm +/- 10mm or 0.394" Greater than 400mm(15.75") < 6096 mm

Products Listed are standard products. Unique sizes, materials & colours are available but are special order and subject to set-up & minimum quantities costs. 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 TOI.: "XX --- ANGLES TOLERANCES PER: N/A XXXX --- +/- APPROVAL: Janet Mann APPROVAL: Veil Coleman Date: 10/05/18