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REV. : A

PAGE 0 OF 11

電子零組件承認/申請報告書

編號:E4136

D-LINK P/N : 505924112010		申請者：李昭瑩	主管：李鑑修
零組件品名 : DIPOLE ANTENNA IW-241RS-120-1			
原製造廠商 : JOYMAX		原廠編號 : IW-241RS-120-1	
在台代理商 : 士誼科技事業有限公司		連絡人:賴秉宗	電話 : (03)4931401
類別: <u> 1 </u> 1.標準品 2.訂製品 3.模具	REVISION	STATUS	
申請項目: <u> 1 </u> 1.初試 2.再審 3. Second Source	PAGE	REV	
應用機種: : DSL504W	0	A	
COMMENTS:	0-1	A	
測試結果	1~11	A	
Tested with the DSL504W, OK! 7/12/01' Jouwin Lee			
主管： <input checked="" type="checkbox"/> 承辦者：廖士賢 <input type="checkbox"/> 測試人： 日期： 2001/8/16			
機構	R&D 李鑑修	PM	
生技	資材	品管	
結果	<input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 否決 <input type="checkbox"/> 其它	審核	電子檔 王椅楠 2001/8/16

APPROVAL SHEET

CUSTOMER : 友訊科技股份有限公司
D-LINK Corporation

MODEL NO. : IW-241RS-120-1

DESCRIPTION : SWIVEL TYPE, $1/4 \lambda$ DIPOLE ANTENNA,
REVERSE SMA CONNECTOR

(CUSTOMER APPROVAL)

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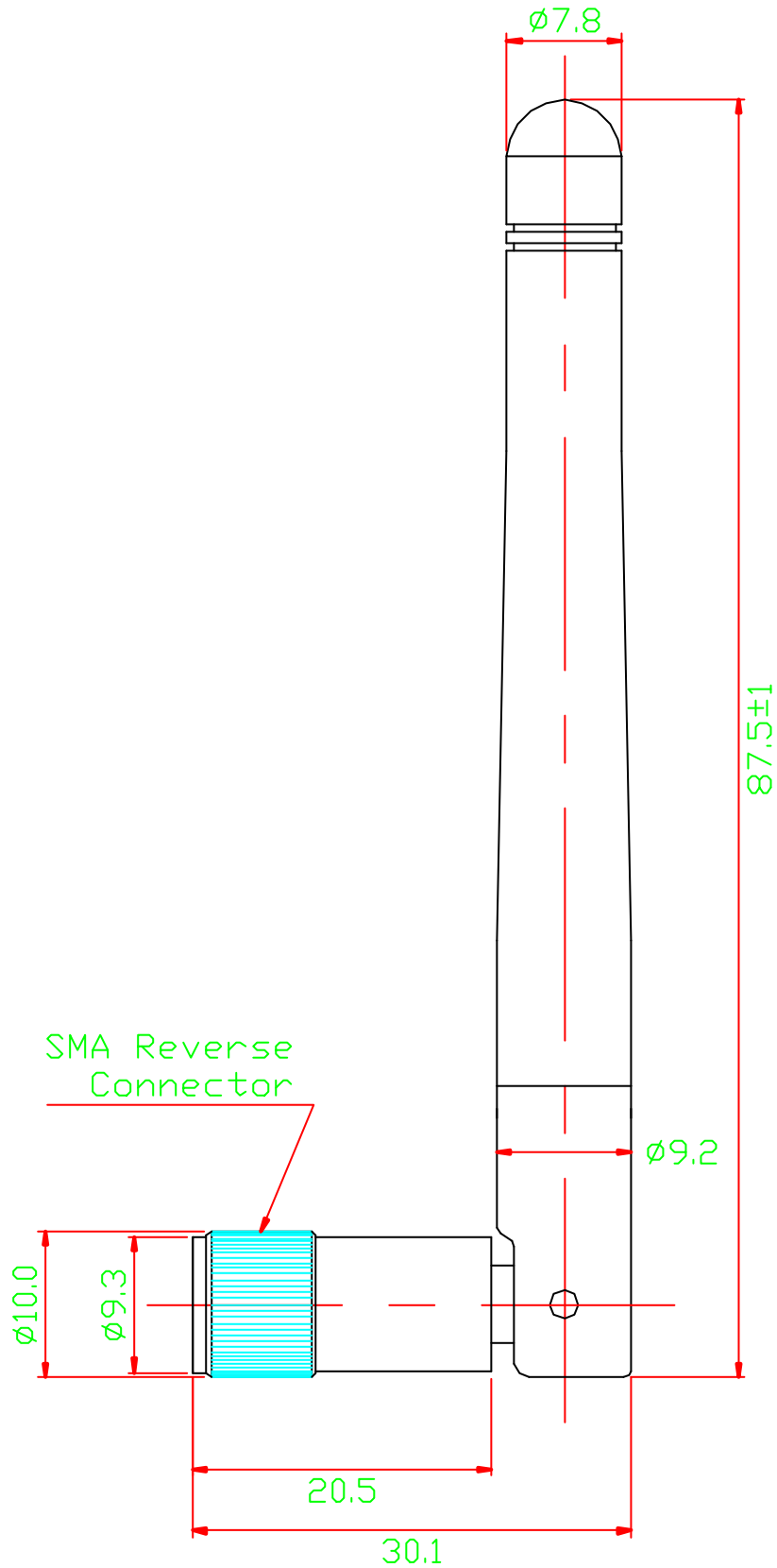


士誼科技事業有限公司
JOYMAX ELECTRONIC CORP.

桃園縣平鎮市新榮路 63 巷 17 號 Tel:03-4931401 . 4931447 Fax:03-4028086
17,Hsin-Jung Rd., Ping-Chen, Tao-Yuan, Taiwan, R. O. C

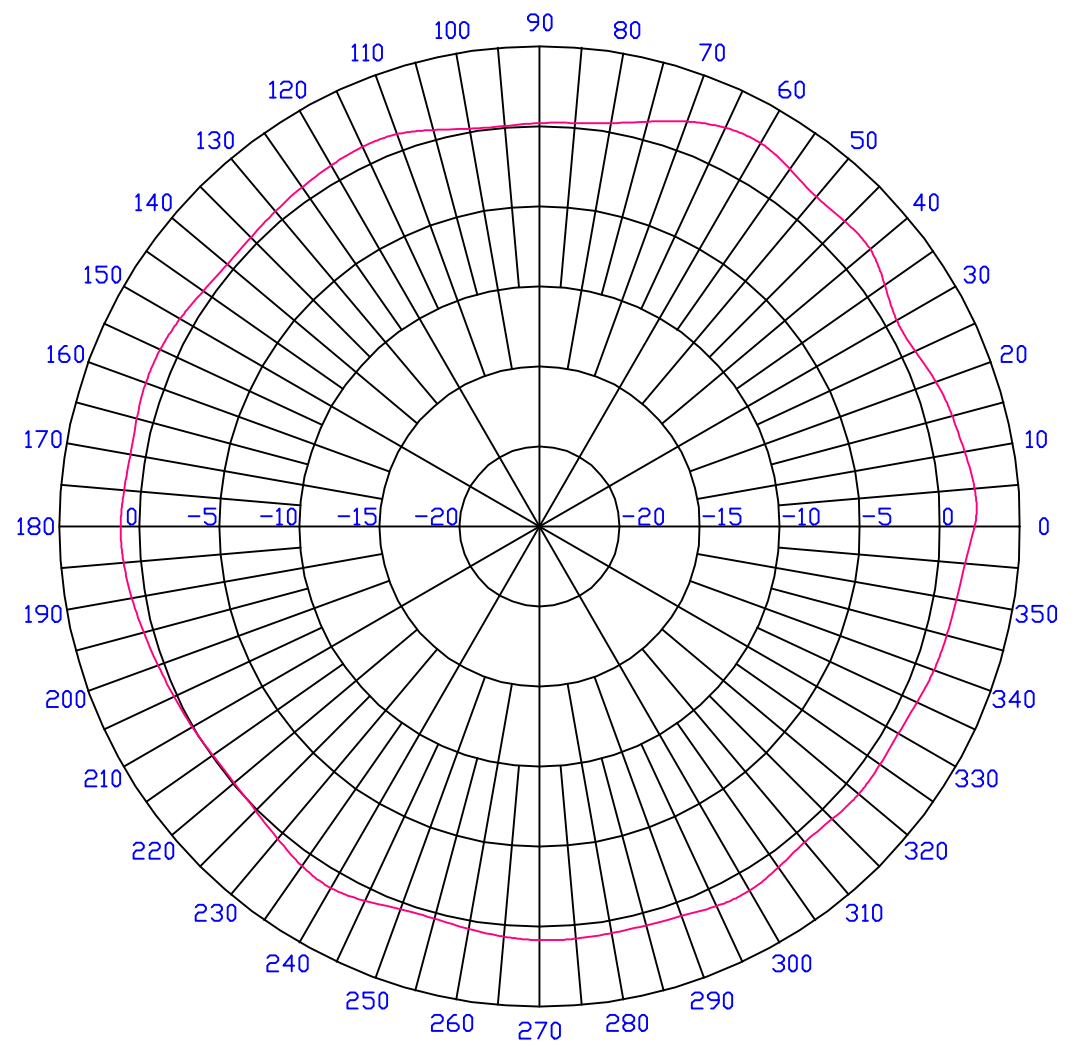
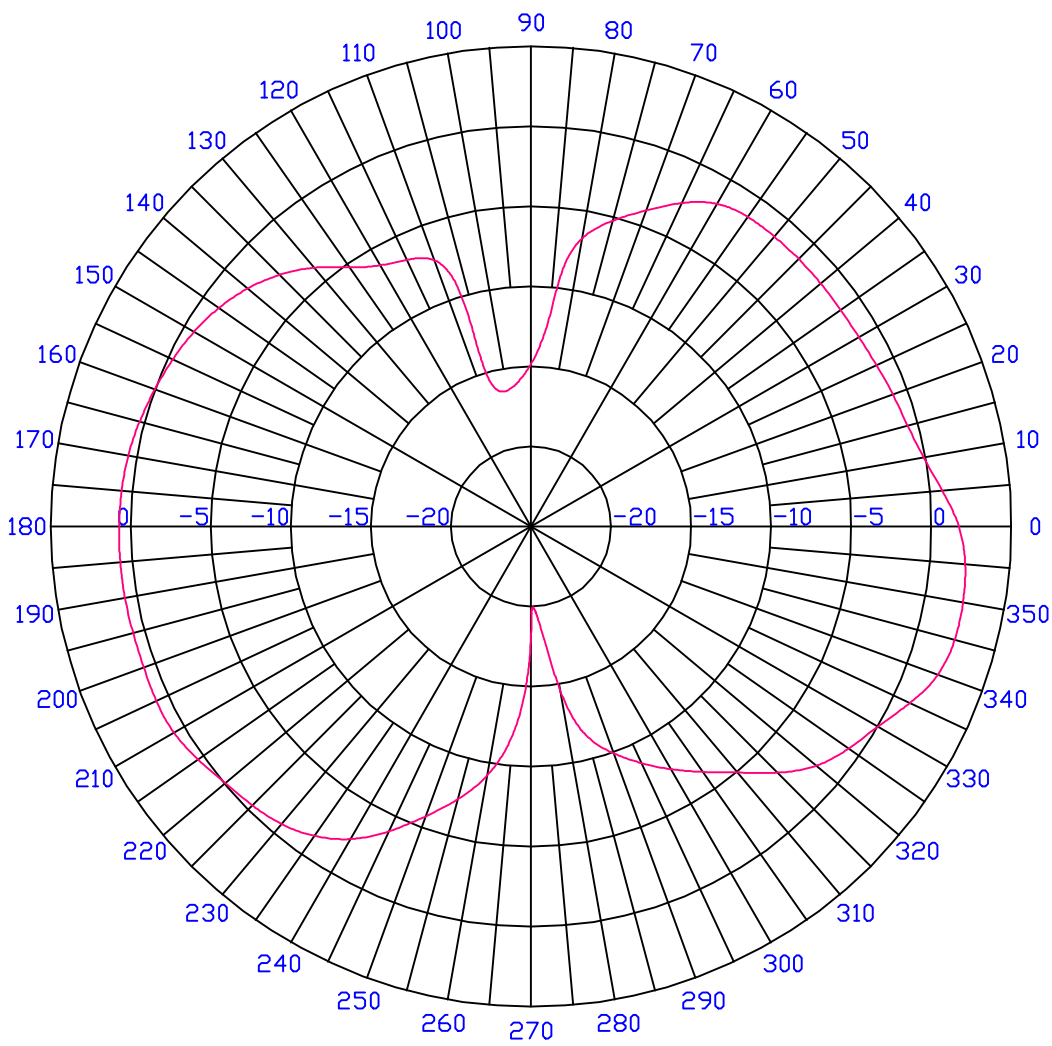
SPECIFICATION

1. DESCRIPTION Antenna	: 2.4GHz Swivel Type ,1/4 λ Dipole
2. CUSTOMER	: D-LINK Corporation
3. MODEL NO	: IW-241RS-120-1
4. APPEARANCE	: See fig.1
5. FREQUENCY	: 2.4~2.5 GHz
6. IMPEDANCE	: 50 Ohms nominal
7. S.W.R.	: Less than 2.0:1
8. GAIN	: 2dBi
9. ADMITTED POWER RADIATION	: 1W
10. TYPE OF RADIATION	: Toroidal
11. POLARIZATION	: Vertical
12. ELECTRICAL LENGTH	: 1/4 λ , Dipole
13. CONNRCTOR	: SMA REVERSE CONNECTOR
14. OPERATING TEMPERATURE RANGE	: -20°C ~+65°C
15. STORAGE TEMPERATURE RANGE	: -30°C ~+75°C



<table border="1"> <tr> <td>\triangle^x</td> <td>\triangle^x</td> <td>\triangle^x</td> <td>\triangle^x</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	\triangle^x	\triangle^x	\triangle^x	\triangle^x													REV DESCRIPTION	MATERIAL	MODEL	IW-241RS-120-1			
	\triangle^x	\triangle^x	\triangle^x	\triangle^x																			
FINISH	黑色	NAME																					
UNIT: mm	SCALE: 2/1	PART No																					
TOLERANCES:	X ± 0.1	DESIGN	APPROVE	DATE	REV																		
	X.X ± 0.05																						
	X.XX ± 0.02																						
	ANGULAR ± 0.5°																						





Properties of Panlite®

Items	Unit	Test Method	Condition	Weather Resistant Grade (SAE approved)		
				L-1225ZL	L-1225Z	L-1250Z
Specific gravity	—	ASTM D792	—	1.20	1.20	1.20
Water absorption	%	ASTM D570	24 hr in 23°C water	0.20	0.20	0.20
Light transmission	%	ASTM D1003	3mm thick	88	88	88
Refractive index	—	ASTM D542	—	1.585	1.585	1.585
Tensile strength	Yield	MPa (kgf/cm ²)	ASTM D638	65 (660)	63 (640)	62 (630)
	Break	MPa (kgf/cm ²)	ASTM D638	64 (655)	77 (790)	80 (820)
Tensile modulus	MPa (kgf/cm ²)	ASTM D638	—	2,190 (22,300)	2,130 (21,700)	2,120 (21,600)
Tensile elongation	Yield	%	ASTM D638	6	6	6
	Break	%	ASTM D638	130	140	140
Flexural strength	MPa (kgf/cm ²)	ASTM D790	—	96 (980)	93 (950)	92 (940)
Flexural modulus	MPa (kgf/cm ²)	ASTM D790	—	2,330 (23,800)	2,260 (23,000)	2,230 (22,700)
Compressive strength	MPa (kgf/cm ²)	ASTM D695	—	77 (790)	76 (780)	76 (770)
Impact strength	J/m (kgf-cm/cm)	ASTM D256	Izod notched 3.2mm thick	100 (10)	830 (85)	880 (90)
	J/m (kgf-cm/cm)	ASTM D256	Izod notched 6.4mm thick	50 (5)	130 (13)	140 (14)
Rockwell hardness	—	ASTM D785	M scale	77	77	77
Mold shrinkage	%	ASTM D955	Flow direction	0.5-0.7	0.5-0.7	0.5-0.7
			Traverse direction	0.5-0.7	0.5-0.7	0.5-0.7
Heat distortion temperature	°C	ASTM D648	Load 0.451 MPa (4.6 kgf/cm ²)	138	141	142
			Load 1.813 MPa (18.6 kgf/cm ²)	128	131	132
Coefficient of linear expansion	× 10 ⁻³ cm/cm/°C	ASTM D696	Flow direction	7	7	7
			Traverse direction	7	7	7
Dielectric breakdown strength	kV/mm	ASTM D149	Quick voltage rise method 1.6mm thick	30	30	30
Volume resistivity	× 10 ¹⁶ Ω-cm	ASTM D257	—	3	3	3
Dielectric constant	—	ASTM D150	60 Hz	2.95	2.95	2.95
			10 ⁶ Hz	2.9	2.9	2.9
Dielectric loss tangent	—	ASTM D150	60 Hz	0.0004	0.0004	0.0004
			10 ⁶ Hz	0.009	0.009	0.009
Arc resistance	sec	ASTM D495	—	100	100	100
Anti-tracking (CTI)	V	IEC 112	—	300	300	300
Flame resistance	—	UL 94	1.47mm thick	94V-2	94V-2	94V-2
			3.05mm thick	94V-2	94V-2	94V-2
Temperature index	°C	UL 746B	Electric 1.47mm thick	125	125	125
			Impact 1.47mm thick	115	115	115
			Non-impact 1.47mm thick	125	125	125

All figures entered in this table are the typical figures and, therefore, no gua



Panlite 一般型号的物性表 多列外

项 目	单 位	测试标准	测试条件	冰色·暴脱模型		耐天候型 3到SAE规格)	
				L-1225Y	L-1250Y	L-1225Z	L-12
比重	—	JIS K 7112	—	1.20	1.20	1.20	1.20
吸水率	%	ASTM D 570	24hr in 23°C	0.20	0.20	0.20	0.20
透光率	%	ASTM D1003	3mm thick	88	88	88	88
折射率	—	ASTM D 542	—	1.585	1.585	1.585	1.585
拉伸强度	屈服 MPa (kgf/cm ²)	ASTM D 638	—	82 (830)	81 (820)	83 (840)	81 (820)
	断裂 MPa (kgf/cm ²)	ASTM D 638	—	78 (800)	81 (830)	77 (790)	81 (820)
拉伸模量	MPa (kgf/cm ²)	ASTM D 638	—	2130 (21700)	2120 (21650)	2130 (21700)	2130 (21650)
拉伸率	屈服 %	ASTM D 638	—	6	6	6	6
	断裂 %	ASTM D 638	—	140	140	140	140
弯曲强度	MPa (kgf/cm ²)	ASTM D 790	—	90 (920)	90 (915)	93 (950)	90 (940)
弯曲模量	MPa (kgf/cm ²)	ASTM D 790	—	2260 (23000)	2230 (22700)	2260 (23000)	2260 (22700)
压缩强度	MPa (kgf/cm ²)	ASTM D 695	—	75 (760)	75 (770)	76 (760)	75 (770)
耐冲击强度值	J/m (kgf·cm/cm)	ASTM D 256	艾氏、带缺口 厚度3.2mm	830 (85)	880 (90)	830 (85)	830 (85)
	J/m (kgf·cm/cm)		艾氏、带缺口 厚度6.4mm	130 (13)	140 (14)	130 (13)	130 (13)
洛氏硬度	—	ASTM D 785	M标度	77	77	77	77
负荷-挠曲温度	°C	JIS K 7207	负荷 0.451MPa (4.6 kgf/cm ²)	142	143	141	142
			负荷 1.813MPa (18.6 kgf/cm ²)	132	133	131	132
成型收缩率	%	ASTM D 955	流动方向	0.5~0.7	0.5~0.7	0.5~0.7	0.5~0.7
			垂直方向	0.5~0.7	0.5~0.7	0.5~0.7	0.5~0.7
线膨胀系数	×10 ⁻⁶ cm/cm/°C	ASTM D 696	流动方向	7	7	7	7
			垂直方向	7	7	7	7
绝缘破坏强度	kV/mm	ASTM D 149	快速加电压 厚度1.6mm	30	30	30	30
体积电阻率	Ω·cm	ASTM D 257	—	3×10 ¹⁶	3×10 ¹⁶	3×10 ¹⁶	3×10 ¹⁶
介电率	—	ASTM D 150	60Hz	2.95	2.95	2.95	2.95
			10 ⁶ Hz	2.9	2.9	2.9	2.9
介电正切	—	ASTM D 150	60Hz	0.0004	0.0004	0.0004	0.0004
			10 ⁶ Hz	0.009	0.009	0.009	0.009
耐电弧性	sec	ASTM D 495	—	110	110	100	110
耐导电径迹性 (CTI)	V	IEC 112	—	300	300	300	300
阻燃性	—	UL 94	—	V-2 (0.40mm) HB (1.9mm)	V-2 (0.40mm) HB (1.5mm)	V-2 (0.40mm) HB (1.9mm)	V-2 (0.40mm) HB (1.5mm)
温度指数	°C	UL 746B	电学式 厚度1.47mm	125	125	125	125
			冲击式 厚度1.47mm	115	115	115	115
			非冲击式 厚度1.47mm	125	125	125	125

TEIJIN CHEMICALS LTD.

TEIJIN CHEMICALS LTD.
2-2, UCHISAIWAICHO 1-CHOME,
CHIYODA-KU, TOKYO, JAPAN

TELEPHONE: TOKYO (3506) 43
FACSIMILE: TOKYO (3506) 43

TO WHOM IT MAY CONCERN

CERTIFICATE OF QUALITY

COMMODITY : TEIJIN PANLITE (Polycarbonate Resin)

GRADE NO. : L-1250Z100

COL. NO. : NATURAL

ITEM	UNIT	TEST METHOD	TEIJIN CHEMICALS QUALITY STANDARD	TEST RESULT
IMPACT STRENGTH (IZOD NOTCHED 3.2mm thick)	kgfcm/cm	ASTM D256	≥ 80	PASS
FLEXURAL MODULUS	kgf/cm ²	ASTM D790	23,600 ± 1,500	PASS
TENSILE STRENGTH (AT BREAK)	kgf/cm ²	ASTM D638	820 ± 140	PASS

NOTE : ALL FIGURES ENTERED IN THIS TABLE ARE FOR THIS SPECIFIC LOT AND, THEREFORE,
NO GUARANTEE.

TEIJIN CHEMICALS LTD.



M. Kikuchi
for Y. KIKUCHI
MANAGER
SALES ADMINISTRATION DEPT.

QMFZ2
Component - Plastics

October 27, 1997

TEIJIN CHEMICALS LTD

E50075 (M)

								(C - cont. from I:010 card)			
L-1225LM(d),	All	0.40	94V-2	80	80	80	4	3	2	—	—
L-1225ZL(d)		0.75	94V-2	80	80	80	3	1	2	—	—
		1.5	94V-2	125	115	125	3	1	3	—	—
		2.1	94HB	125	115	125	3	1	3	—	—
		3.0	94HB	125	115	125	2	1	3	5	2
		6.0	94HB	125	115	125	1	1	4	—	—
L-1225LL(d)	All	0.4	94V-2	80	80	80	4	3	2	—	—
		0.75	94V-2	80	80	80	3	1	2	—	—
		1.5	94V-2	125	115	125	3	1	3	—	—
		3.0	94V-2	125	115	125	3	1	3	5	2
		3.3	94HB	125	115	125	2	1	3	—	—
		6.0	94HB	125	115	125	1	1	4	—	—
L-1250#(f2)(d),	All	0.40	94V-2	80	80	80	4	3	2	—	—
L-1250U#(d),		0.84	94V-2	80	80	80	4	—	4	—	—
L-1250V#(d),		1.5	94HB	125	115	125	4	0	3	—	—
L-1250Z#(d)		3.0	94HB	125	115	125	2	0	3	5	2
		6.0	94HB	125	115	125	1	0	4	—	—

Reports: February 10, 1989; February 10, 1989; September 24, 1990.

Replaces E50075C dated November 1, 1994.

699748006

N7047

Underwriters Laboratories Inc.®

(Cont. on C005 card)

011/0032918

QMFZ8

July 28, 1997

Component - Plastics Certified For Canada

TEIJIN CHEMICALS LTD

E50075 (M)

(C - cont. from B card)

(cc) 10 thru 30 incl.

(i) A two digit number (10-15) denoting carbon filler content.

(j) A two digit number (10-40) denoting the total content of carbon fiber and glass fiber.

ww = A two digit number 10 thru 20 denoting content of carbon filler.

Any one or two letters may be suffixed to the grade.

Marking: Company name and material designation, generic polymer identification, color number where appropriate, and batch or lot number or date of manufacture on container, wrapper or molded on finished part.

See General Information Preceding These Recognitions.

Small-scale test data does not pertain to building materials, furnishings and related contents. Small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

699748006

Underwriters Laboratories Inc.®

011/0251459

To: 林先生

From: 一功

Elastollan S規格系列

聚酯類Polyester，有良好機械特性，優異的耐腐蝕性，
 彈性，抗拉及撕裂強度用於運動鞋底、溜冰鞋及機械
 件等，射出及押出成形

物 性	單位	DIN	S80A	S85A	S88A	S90A	S95A	S98A	S60D	S64D	S74D
用於射出 ▲ 押出 ■ 吹出 ●			▲ ■	▲ ■	▲	▲ ■	▲	▲	▲	▲	▲
硬度 蕭氏A Hardness	Shore A	53505	81	85	88	93	96				
硬度 蕭氏D Hardness	Shore D	53505			36	41	48	55	60	64	75
密度Density	g/cm ³	53479	1.22	1.23	1.23	1.24	1.24	1.25	1.25	1.26	1.26
抗拉強度Tensile strength *	N/mm ²	53504-S2	50	55	55	55	50	45	45	45	40
斷裂延伸率Elongation at break *	%	53504-S2	750	650	650	600	550	500	500	450	300
20% 抗拉模數 Tensile modulus *	N/mm ²	53504-S2	2	2	3	6	8	13	15	22	25
100% 抗拉模數 Tensile modulus *	N/mm ²	53504-S2	4	5	6	9	11	16	18	23	30
300% 抗拉模數 Tensile modulus *	N/mm ²	53504-S2	8	8	9	13	20	23	34	38	40
彈性模數—張力測試 (測試樣品3mm) Modulus of elasticity	N/mm ²	53457-1						200	250	410	800
撕裂強度 Tear strength	N/mm	53515	60	70	75	95	120	150	170	200	240
摩擦損耗 Abrasion loss	mm ³	53516	40	35	30	30	30	25	25	25	25
室溫壓縮變形率 Compression set	%	53517	25	25	25	25	25	30	40	45	55
70°C 壓縮變形率 Compression set	%	53517	35	35	35	45	45	45	50	55	60
凹口衝擊強度 Notched impact strength (Charpy)	kJ/m ²	53453	+23°C		-30°C						
			不破裂	不破裂	不破裂	不破裂	不破裂	不破裂	不破裂	不破裂	不破裂
			不破裂	不破裂	不破裂	不破裂	5	6	6	4	3

- * S2試片在100mm/min的應變速度下測量
- 厚度2或6mm射出試片，在100°C回火20小時後測驗
- 上列測驗值僅供參考，常因客戶製品設計而變
- 換算單位：1MPa=10.2kg/cm²=145PSI=1N/mm²
- 1k /m²=1.02kg/cm²

- 加工條件
- 射出成形溫度175-240°C
 - 模溫20-70°C
 - 押出成形溫度175-230°C

Elektrogran GmbH Postfach 1133 D-49443 Lemförde

WGJ COMPANY LTD.

P.O. BOX 36 - 431

RC TAIPEI, TAIWAN, R.O.C.

BASF Gruppe

Date 18.11.1999

No. 43416

Inspection Certificate

EN 10 204-3.1 B (DIN 50049)

Product : ES 95 A 50 000 S No. : 15002939

Batch : 205129

Basic-Batch 205125

Property	Test method	Unit	Value
Dichte	DIN 53479	g/cm ³	1,24
Shore-Haerte D	DIN 53505	-	47
Zugfestigkeit	DIN 53504	MPa	54
Reissdehnung	DIN 53504	%	500
Abrieb	DIN 53516	mm ³	32

Dichte = Density/Densité, Shore-Haerte = Shore hardness/Shore Dureté, Zugfestigkeit = Tensile strength/Resistance traction,
Reissdehnung = Elongation at break/Allongement rupture, Weissenhof-Widerstand = Tear strength, Abrieb = Abrasion loss/Abrasion

The stated values are measured from a representative batch (basic-batch) of every product campaign.

Test platters are injection moulded from dry granulate with less than 0,05 % water content. Test platters tempered 20 hrs. at 100 °C,
then cooled to 23 °C / 50 % RH before testing. Test specimen cut from test platters.

We hereby certify that the material described above complies with the terms of the order contract.

Author: Sellig

Works inspector:

The above information is derived from our quality checks. It does not relieve the purchaser from examining the product upon delivery
and gives no assurance of suitability of the product for any particular purpose.

Landwirtschafts
D-49443 Lemförde
Telefon 052443 10 0
Telefax 05243 10 10

Bankverbindung
Commerzbank AG, Ostwestfalen
BLZ 251205400, Nr. 60 83001 00
SWIFT-Code: COBADE33
Postbank Münster
BLZ 251205400, Nr. 60 83001 00

Sitz der Gesellschaft: D-49443 Lemförde
Geschäftsführer:
Gerhard H. v. Halmeid, Günther
Reinhard Lebbkes
Rechtsanwältin Anstatter, D-60708
Frankfurt am Main, 408 2153

ELASTOGRAN GMBH GESCHAFTSBEREICH ELASTOMERE
POSTFACH 11 40, 49440 LEMFORDE FED REP
GERMANY

E140250

70=是源林克
孫中林陳慶合

Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI Mech		H W I	H A I	H V T R	D 4 9 5	C T I
					with Imp	w/o Imp					
Polyurethane (PUR), furnished in granular form, designated "Elastollan".											
C85A	NC	0.95	94HB	50	50	50	—	—	—	—	—
S85A	NC	0.95	94HB	50	50	50	—	—	—	—	—
1175A10W	NC	0.90	94V-0	50	50	50	—	—	—	—	—
		1.5	94V-2	50	50	50	—	—	—	—	—
		3.0	94V-2	50	50	50	—	—	—	—	—
C 74D	NC	0.90	94HB	50	50	50	—	—	—	—	—
R3000	NC	0.90	94HB	50	50	50	—	—	—	—	—
1195A10	NC	1.0	94HB	50	50	50	—	—	—	—	—
1180A10	NC	0.83	94HB	50	50	50	—	—	—	—	—
1185A10	NC	0.82	94HB	50	50	50	—	—	—	—	—
1185A10W	NC	0.75	94V-2	50	50	50	—	—	—	—	—
		1.5	94V-2	50	50	50	—	—	—	—	—
		3.0	94V-2	50	50	50	—	—	—	—	—
1185A10FHF	NC	0.75	94V-2	50	50	50	—	—	—	—	—
		1.5	94V-2	50	50	50	—	—	—	—	—
		3.0	94V-0	50	50	50	—	—	—	—	—
C98A10	NC	1.0	94HB	50	50	50	—	—	—	—	—

Marking: Company name and material designation on container, wrapper or molded or finished part.

ELASTOGRAN GMBH GESCHAFTSBEREICH SYSTEME
POSTFACH 11 40, 49400 LEMFORDE FED REP
GERMANY

E123445

Mtl Dsg	Col	Min Thk mm	UL94 Flame Class
Rigid polyurethane foam (PUR) designated "ELASTOLIT", furnished in the form of two liquid components.			
D09	NC	9.80#	94V-0
D 07-1	NC	7.91##	94V-0, 94-5VA

Minimum density is 0.504 g/cc.
Density range is 0.48-0.64 g/cc.

Mtl Dsg	Col	Min Thk mm	UL94 Flame Class	Elec	RTI Mech		H W I	H A I	H V T R	D 4 9 5	C T I
					with Imp	w/o Imp					
Polyurethane (PUR) designated "ELASTOLLAN", furnished in the form of pellets.											
1175A10W	NC	0.90	94V-0	50	50	50	—	—	—	—	—

S95A 為 S85A 系列，因軟硬度規格太多
所以只有認証 S85A，防火等級為 HB，一般不燃

