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■

()
가가 . ,

()
가 .
가 ,
 ,

가

82 6837 21.6% 가 , 60
4425 16.9% 91 (115 8245) 17.0%

18 9042 11.8% 가 ,
17 7829 8.4%, 1 1213 121.2% 가 .
가 41 3703 20.6% 가 , 19
6479 20.0% 가 가 61 182 20.4%

3 가 19 7656 , 12
4986 7.9%, 6.2% 가 , 10 6600 , 3 3738 20.6%, 14.5%
가 , 6 2571 , 1 7393 12.1%, 9.2% 가 ,

6 , 1가 ,
가 ,

가

Air Bag
가

가

(가 , 78%), Air Bag
가 가

Bumper Adhesive, Hardcoating, Head Lamp Adhesive

Hemming 1 , Mastic

CR(Chloroprene Rubber) PVC , Body Sealer CR , Spot Welding Sealer Butyl Rubber .

< 1> (: , %,)

		1991				1992			
		1991		1992		1991		1992	
		1 ~ 12	1 ~ 6	1 ~ 6		1 ~ 12	1 ~ 6	1 ~ 6	
		1,128,783	506,108	578,845	14.4	1,122,311	495,909	565,450	14.0
		29,462	11,020	25,580	132.1	28,837	11,126	26,082	134.4
		1,158,245	517,128	604,425	16.9	1,151,148	507,035	591,532	16.7
		105,713	48,472	77,499	59.9	107,311	50,343	69,819	38.7
		205,777	101,077	132,721	31.3	208,122	104,996	126,210	20.2
		28,083	13,319	12,192	8.5	27,965	13,531	11,663	13.8
		339,573	162,868	222,412	36.6	343,398	168,870	207,692	23.0
		1,497,818	679,996	826,837	21.6	1,494,546	675,905	799,224	18.2

< 2> (:1000)

			1989	1990	1991	1992	1993	1994	1997	2000
			856	965	1,129	1,163	1,302	1,445	1,920	2,112
		1	1	3	2	3	5	7	15	40
			450	604	746	800	889	982	1,236	1,300
			347	340	377	350	400	450	650	800
			258	335	340	442	496	537	738	929
		1	1	1	1	1	2	3	5	
			248	328	332	421	481	522	693	864
		9	7	12	8	10	12	20	35	
			1,114	1,300	1,469	1,605	1,798	1,982	2,658	3,041
		2	4	3	4	6	9	18	45	
			1,116	1,304	1,472	1,609	1,804	1,991	2,676	3,086
			690	932	1,078	1,231	1,371	1,504	1,929	2,164
			356	347	320	358	410	462	670	835
			1,046	1,279	1,398	1,589	1,781	1,966	2,599	2,999

< 4> (:100 , %)

	1991		1992		1993	
		M/S		M/S		M/S
Loctite	800	19.0	1,000	18.2	1,200	17.1
	1,100	26.1	1,540	28.0	2,300	32.9
	860	20.4	1,100	21.1	1,300	19.3
	800	19.0	1,160	20.0	1,350	18.6
	640	15.2	700	12.7	850	12.1
	4,200	100.0	5,500	100.0	7,000	100.0

Direct Glazing Gasket 1 , Door
Service Hole Butyl Rubber .
Body Sealer Under Coat PVC Plastisol .

가 70%, 가 30%

가

91 132

가 42 (32%),

가 90 (68%)

가 72 80%

< 3>

	Spot Weld Sealer		(SBR)	Panel Flange , Spot , ,
			(SBR)	
	Mastic Sealer		(CR)	Panel
			()	
	Butyl Sealing Tape	,	Butyl	Body Panel Sealing, ,
	Hemming Sealer	1	Epoxy Resin	Door, Hood, Trunk Lid Hemming , ,
	Roof Bow Sealer			Roof Panel Panel
	Putty Sealer		PVC Resin	Body Panel Panel
	Anti-Vibration Pad			Roof, Door, Fender Panel , , (Al-Foil)
	PVC Body Sealer		PVC Resin	Body , (Door, Hood, Trunk-Lid)
			PVC Resin	
			PVC Resin	
	PVC Under Coat		PVC Resin	Body Spray , ,
	Fuel Tank		PVC Resin	
	Anti-Vibration Pad			Roof, Door, Fender Panel , , (Al-Foil)
	Dust Sealant			Sealing
	Stone Guard Coat	PVC Type	PVC Resin	Fender, Side Seal, Door Spray
		PVC Type	PVC Resin	Chipping
	Roof Tape	Hot Melt	Epoxy Resin	Roof Sealing,
	Melt Sheet	Hot Melt	Asphalt	Body , ,
	Butyl Sealing Tape		Butyl	Door Service Hole Cover ,
	Service Hole Cover			Door Service Hole Cover ,
	Seaming Sealer			Window Shield ,
	Window Sealer			Gasket
	Anti-Vibration Pad			Panel , , (Al-Foil)
	Hinge		, Epoxy	Hinge
	Sound-Insulation	V-Foam	PVC Resin	Engine Room, Dash Panel , ,
		PU Foam	Poly Urethane R	
		Bary-x		
		2	Poly Urethane R	
		Emulsion	EVA Resin	

42 가 8 19.0%, 11 26.1%,

8 6000 20.4%, Loctite 8 19.0%, 6 4000 15.2%

()

GE

가

< 5>

Sealer

(7>

Sealer

(:kg)

(: /)

	3000	PVC/Rubber
	1800	PVC/Butyl Epoxy
	4200	PVC Under Coat Body Sealer
	1200	P V C (B o d y
Sika Korea	—	Sealer)
	—	PU(1)

Sealer	
PVC Under Coat	4.0~10.0
PVC Body Sealer	2.0~2.5
Mastic Sealer	1.0~1.5
Spot Weld Sealer	0.3~0.7
Hemming Sealer	0.2~0.4
Weather Strip Sealer	0.2~0.4
Direct Glazing	0.5~1.0
(Rubber)	0.3~0.5
	2.0
	10.5~19.0

가 90

(GE)

PBT/ PC

Welding

16

GE

Silicon Sealant Welding 2

Hard Coating

92

Head Lamp Adhesive

Air Bag

92

4/4

Air Bag

92 3/4

CVJ Boots

Dow Corning,

, GE

< 6>

Sealer

(1991)

(: , %)

Hemming		1 Epoxy	419	2
Mastic		Chloroprene Rubber, PVC	1,887	9
Window ()	Direct Glazing	1 Poly Urethane	1,258	6
	Gasket			
Body Sealer		Chloroprene Rubber	629	3
		PVC Plastisol	2,726	13
			3,355	16
Spot Weld Sealer		Butyl Rubber	839	4
Door Service Hole		Butyl Rubber	629	3
Under Coat		PVC Plastisol	8,388	40
			4,195	20
			20,970	100

)

Air Bag

가

가

40%

40%,

50%,

, Head Lamp

4000 ~ 6000

91

2

970 (

)

Under Coat PVC

Plastisol 8390

40.0%, Body Sealer (

CR 630

3%,

PVC Plastisol 2700

13%) 3355 16%

가

56%

Mastic

CR

PVC

1900

9%, Window

1

PU 1260

6%,

Spot Weld Sealer

Butyl Rubber 840

4%, Door Service Hole

Butyl Rubber 630

3%,

Hemming

1

Epoxy 420

2%,

4200

20%

PVC

Rubber

3000

PVC

Butyl · Epoxy

1800

PVC Under Coat, Body Sealer 4200

PVC

(Body Sealer)

1200

1

PU

Sika Korea가

PU

, 94

72

Sika Korea가

Sikaflex가 PU

50%

, PU

Side Mold , Direct Glazing , Bond

< 8>

(:E/A, 1000)

Body							
		5,000	4,615	9,615	60,000	55,380	115,380
		11,200	10,338	21,538	134,400	124,056	258,456
		27,500	25,385	52,885	330,000	304,620	634,620
		61,600	56,862	118,462	739,200	682,344	1,421,544
Auto Ref.		32,500	30,000	62,500	390,000	360,000	750,000
		72,800	67,200	140,000	873,600	806,400	1,680,000

< 9>

PU

(1991)

(: , 1000cat)

		641,350	4,490	259,794	1,820	191,462	1,340
		—	—	—	—	—	—
		35,710	360	51,594	516	3,371	34
		83,501	250	104,227	313	7,945	24
		6,529	—	9,681	—	1,014	—
		767,090	5,100	425,296	2,649	203,792	1,398
						22,458	124

PU

Press Body Paint End

가 Window 가 가

가 , 가 2500 PU 가

5000

PU 가 Window Direct Glazing Gasket, Pillarless
Hemming Side Molde, Joint Sea-ler,

Edge Sealer PVC 가

PU 800 Cat, 150 Cat, 62 Cat, 400 Cat,

Rolling Stock 20 Cat

PVC 18 55%, 15%, 10%, 5%,

5%, 10%

Under Coating(U/C) 2 2000 , Sealer (Mastic · Hemming · Body · Spot) 9400

, Tape 4500

가 , 120 Mastic

25 , Hemming 1 , Body Sealer 50 , Spot Sealer 10 , Door Sealer 2

PVC 2 7000 , 5700

3000 200 , 4000

1100 , 1500 1300

250 U/C 100 , Hemming 10 , B/S 20

70%, 30%

가 Cat 5000 ~ 5200 , PVC kg 1500

, Butyl Tape 600 , PVC 1400 ~ 1500 , Butyl 2000 , Epoxy

4000

U/C PVC kg 1200 , B/S PVC 1400 ~ 1800

Mitsubishi JPN Sunstar, YKH Rubber

, GM , Gurit Essex YKH 가 Mazda

, Sunstar