

8.3%

가

1977

4.6% 168

2000 7.3% 286 2004

8.3% 335 가

1

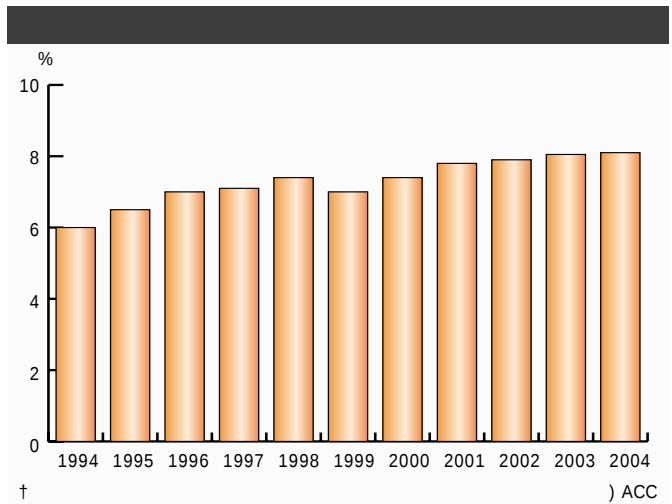
2-3 SUV,

2004 EP(Engineering Plastics) PP (Polypropylene)

30%, PVB(Polyvinyl Butyral) 85%

1 175 ,

48 , 24 가



(: , M/T, %)			
	2005	2015	
	23 418	26 338	12
	15 026 100	16 890 030	12
	2 348	2 347	0
	-	-	-
	1 836	1 799	▽2
	618 740	649 810	5
가	457	455	0
	263 060	287 910	9
EP	329	275	▽16
	71 770	62 130	▽13
	71	38	▽46
	8 630	5 080	▽41
가	48	59	23
	10 240	12 670	24
	36	32	▽13
	9 335	8 220	▽12
	28 541	31 343	10

가 가

가

가

3-4

HDPE(High-Density Polyethylene)

, Barrier EVOH(Ethylene-Vinyl

Alcohol) Copolymer Resin 4 6

20-30%

가

Honda < >

가

가

PP , PP

PP가

가

PP

가

, DuPont

(Polyester Elastomer)

(Nylon), PET(Polyethylene Teraphthalete) EP

Glass

가

, 가가

가

LAN

가

PMMA(Polymethyl Methacrylate)

PMMA

Mitsubishi Rayon

20

가

가

EP,

6

50%

가

66

12

PC(Polycarbonate)

, PC

Polyester

가

PPS(Polyphenylene Sulfone)

, 가

가 가

GE, PPO · PC

GE Plastcs PPO(Polyphenylene Oxide)

Alloy Noryl GTX

Volkswagen New Beetle Fender

Hummer H3 Front Rear

Fender

Lexan SLX PC-Polyester Copolymer Colored Film

가 , PC 가 가

PPO Copolymer 가

Delphi가 PPO

PVC(Polyvinyl Chloride) Cross

Linked PE(Poly- ethylene)

PPO (Halogen-Free)

25%

GE PetroChina PC

2006 6 PC Phosgene Free-Melt PC

GE PC Lexan PetroChina

PC GE PetroChina 가

GE Mt.Vernon Burkville, Bergen op Zoom, Cartagena
Chiba Lexan Resin , 15 Lexan 가

1970 2001 Moka

BASF, PBT EP
BASF Seat Pan Pan 6.4

Hexel Seat Frame

BASF EP
2003 Honeywell Ticona EP 2005 11 Leuna-Miramid

, 12 LATI Industria Termoplastici SpA LATI USA EP
EP Altamira 6 66 Resin PBT

2006 2/4 가
Wyandotte Sparta EP 가 EP

Toray PBT Resin 2006 4 가
Toray-BASF PBT Resin 6 Kuantan

BASF Petronas Chemicals

BASF PBT Resin

Pasir Gudang , Pudong

DuPont Dow
 DuPont Water Jacket Spacer 2006 Toyota Crown Lexus GS-300
 가 55 가 가 1%
 Valve Cover G. Bruss Valve Cover가 2004 Chrysler
 Town & Country Dodge Caravan
 Dow Chemical PC/ABS(Acrylonitrile Butadiene Styrene) Alloy Front Seat Back
 10
 PP 2005 Volkswagen Polo
 Front-End Assembly 25% 10% 가
 DuPont Dow 가
 DuPont 2005 10 Nagoya DuPont Automotive Center
 Dow 2006 4 Kawasaki Dow Automotive Technology Center , ,
 (Sealant)
 Lanxess
 1990 Ford Focus Front-End Assembly Nissan Ultima,
 Chrysler 300, Dodge Charger, Ford Five Hundred, 45
 Lanxess
 , PC
 가
 ACC(American Chemistry Council) , 2005-06 1680
 가 가 2004
 6100 2014 7700 가
 EP 가
 Teijin Chemicals Zhejiang Jiaxing No.2 PC 5 2006 12 가
 No.1 5 가 Teijin No.3
 Chi Mei Asahi Kasei가 Hainan 7 5000 2006 6
 Bayer MaterialScience Caojing BPA 20 PC 20 PC
 10 2006 3/4 가 , No.2 10 2008 가
 Chenguang Fada Industrial 2004 3 Sichuan Mianyang National Science &
 Education Venture Park PC 1 4000 1 1
 2005 가 가 20 5
 Tongling Jintai Chemical 2005 Non-Phosgene PC 3000
 Blue Star Group Gansu Lanzhou Jiangsu Nantong 2
 PetroChina Jilin Petrochemical 2007 34 PC 20
 , Nanjing Nanjing Chemical Industry Park 10
 Mitsubishi Chemical 470 PC 2005 37 2008 57
 20% 30%

250 Kurosaki PC 4 2008 3 8
 Kitakyushu 6 Diphenyl Carbonate 10
 Sinopec Beijing PC 6 BPA 10
 220

PC
 PC
 LG Dow Polycarbonate 2007 3/4 No.2 8 5000
 17 No.2 가 60% , ,
 2008 6 5000 Asahi Kasei
 가 PC 10 2008 40

Rhodia · Solutia

Rhodia 66 2007 3 4
 8000 4000 (4937) , 2006 2
 Shanghai EP 가
 Solutia 66
 Pensacola 66
 1 3 2000 2006 3/4
 2007-08 , Solutia 66
 Solutia 66 Resin Vydyne Ascend

Mitsubishi · Mitsui PP

PP EP
 MCC(Mitsubishi Chemical) 2006 EMCC (ExxonMobil Chemical)
 MCC 5 10 EMCC Mytex Polymers Asia Pacific Mytex Polymers General
 Partnership 6 1 100%
 6% PP
 Mytex Polymers Asia Pacific MCC Mitsubishi Chemical Singapore EMCC
 ExxonMobil Chemical Asia Pacific 50 50 2000 , Mytex Polymers
 General Partnership MCC Japan Polychem America EMCC Mytex
 Polymers 50 50 1987
 MCC Mytex 2 Japan Polychem Chisso
 Petrochemical 65 35 Japan Polypropylene
 EMCC
 Mitsui Chemicals PP

Mitsui 2007 5 PP 6 3000 31

100% Advanced Composites Sidney Nashville

17 2000 Aguascalientes 2

Prime Polymer Cementhai Chemicals Grand Siam Composites

Rayong 8 4000 Prime Polymer Cementhai

Zhongshan 2 4000

Prime Polymer Mitsui Idemitsu

Basell PetroChina

Basell PP

HMC Polymers Map Ta Phut PP 30 2009

(Propane)

PP 6 , 2 Basell Spherizone HMC가

PP 45 2 Basell Spheripol

PTT 8 HMC 40% 2 5000 Basell

HMC Basell 42%, Bangkok Bank 11%,

PetroChina PP 305

PetroChina PP 2005 149 2008 2

Dushanzi Petrochemical 50 -60 , Fushun Petrochemical 30

Sinopec

, PetroChina PP 55% General Fiber 가

Specialty 2003 R&D 가

“ ”

2015

Fuji Kimera , 2015 3 1343 2005

10%

가 12% , 가 가 9.4% 가 가

가 80%

가

가

가

2005 26 3060 2015 28 7910

가 2007

EP

, EP 가

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< 2007/4/2>