

2009년 스티로폼 포장재 재활용 실적

1. 스티로폼 포장재 판매량

(단위:톤)

사용용도	계	가전 완충재	일반포장재	농산물 상자	수산물 상자	부자	기타
사용량(톤)	55,261	31,857	8,463	4,709	7,177	2,572	483

* 건축단열재로 사용되는 스티로폼(명판) 155,591톤과 PSP용기는 제외

2. 페스티로폼 발생량 및 재활용 실적

페스티로폼발생원	계	가정/ 일반업소	농수산 시장	백화점/유통	가전대리점	전기·전자업체	일반기업	기업
발생량(톤)	40,944	6,910	6,542	8,072	8,387	4,015	4,758	2,260
재활용량(톤)	29,533	5,452	4,765	6,038	6,131	2,923	2,964	1,260
미재활용량(톤)	11,411	1,458	1,777	2,034	2,256	1,092	1,794	1,000
재활용률(%)	72.1%	78.9%	72.9%	74.8%	73.1%	72.8%	62.3%	55.8%

* 발생량(40,944)-일반포장재(8,463)+가전(31,857-수출(21,329)+가전수입(5,086)+농수산물(11,886)+부자(2,113('06년)+기타(483)+EPS수입농수산물상자제조(1,398)+수입농수산물용 용기(987)

* 재활용량은 재생업체 및 발생처를 통하여 취합 정리한 것임

3. 페스티로폼 재활용 용도별 현황

(단위:톤)

구분	계	재생수지	경량폼	섬유코팅제
재활용량(톤)	29,533	27,786	947	800
백분율(%)	100%	94.1	3.2	2.7
사용용도		합성목재 육실발판사진 및 그림액자를 창호틀 심재 비디오테이프 장난감, 화분 조립식 벽돌	경량벽돌 경량인방 건물바닥재 내화철골피복재	종이코팅제 섬유코팅제 신발접착제

4. 재활용사업자 현황

구분	지자체(인코트)	소계	다량발생처(인코트)	민간재활용업체				
				경량폼	철골내화재	섬유코팅제	인코트	펠릿
업체수	210	126	19	4	4	7	79	22

* 지자체 210개소의 감용기 보유대수: 300대(일부지자체는 민간위탁 재활용함)
* 다량발생처: 농수산물도매시장(가락동, 구리, 노량진 등), 수협공판장, 백화점 등 *인코트, 펠릿 중복업체 9개소

5. 재생원료 및 제품 수출 현황

- > 인고트 및 펠릿 수출: 6,350톤(4,168천달러), 중국 등 수출
- > 액자프레임: 20,760 톤(49,823천 달러), 미국, 유럽, 남미 등 수출
- *부가가치: 인고트(60만원/톤) → 펠릿(80만원/톤) → 액자몰딩(240만원/톤)

6. 재생원료 수입 현황

- > 인고트 수입: 1,200톤(일본, 호주, 미국 등)

2009 Statistics Data for waste EPS packaging in Korea

1. Consumption of EPS packaging Materials

Utilization	Total	Cushion for home appliances	General packaging	Agricultural box	Fishery box	Floatings	Others
Consumption(M/T)	55,261	31,857	8,463	4,709	7,177	2,572	483

※ Excluded the EPS block (155,591ton) and PSP containers for food packaging

2. Record of Waste EPS Output and Recycling

Origin of waste EPS	Total	Home/ General stores	Agricultural/fishery markets	Department/ Distribution stores	Electric appliance stores	E/E companies	General Enterprises	Others
Output (M/T)	40,944	6,910	6,542	8,072	8,387	4,015	4,758	2,260
Recycling (M/T)	29,533	5,452	4,765	6,038	6,131	2,923	2,964	1,260
Recycling Rate(%)	72.1	78.9	72.9	74.8	73.1	72.8	62.3	55.8

※ Output(40,944) = General packaging(8,463) + Cushion for home appliances(31,857) - Export of home appliances(21,329) + Import of home appliances(5,086) + Agricultural/Fishery boxes (11,886) + Floatings(2,113, consumption in 2006)+Others(483) + Imported EPS (987) + Imported Agricultural/Fishery boxes(1,398)

※ The quantity of recycling was estimated through the recycling industries and local government.

3. Recycling Goods

Classification	Total	Recycled Resin	Crushed	Coating Agent
Amount(M/T)	29,533	27,786	947	800
Rate(%)	100	94.1	3.2	2.7
Utilization		-Synthetic wood -Art Frame -Foothold in bathroom	-Light weight concret -Fireproof covering material of iron frame	-Adhesives -Coating Agent for fiber

4. Status of Recyclers

Classification	Total	Local Government (Ingot)	Large Volume Dischargers (Ingot)	Civil Recyclers				
				Ingot	PS Pellet	Coating Agent	Crushed waste EPS	Fireproof covering material of iron frame
Numbers	336	210	19	79	22	7	4	4

※ Large Volume Dischargers: Large agricultural/fishery markets, departments etc.

※ 9 among the civil recyclers produce Ingot and PS pellet both.

2010 Special News in Korea

No Banning against EPS use as E/E packaging in Korea

Ministry of Environment in Korea has removed the regulation on the use of EPS packaging less than 40,000 cubic centimeters in volume for the small size home appliances on Dec. 31. 2009.

It means there is no ban in use of EPS E/E packaging(including import items) in Korea from Jan. 1. 2010.

The followings are expected effects.

- People's preference on EPS packaging materials shall be increased.
- The cost for the E&E packaging shall be decreased.
- The demand for EPS shock-absorbing materials shall be increased as a result.

Please refer the KFRA magazine Vol. 56(winter 2009) article 'The Best Practices of EPS Collection and Recycling Program in South Korea' for more information. You can find it KFRA website(www.eps.or.kr)