



Adhesive Market in Japan

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President of **J**apan **A**dhesive **I**ndustry **A**ssociation
(**JAIA**)

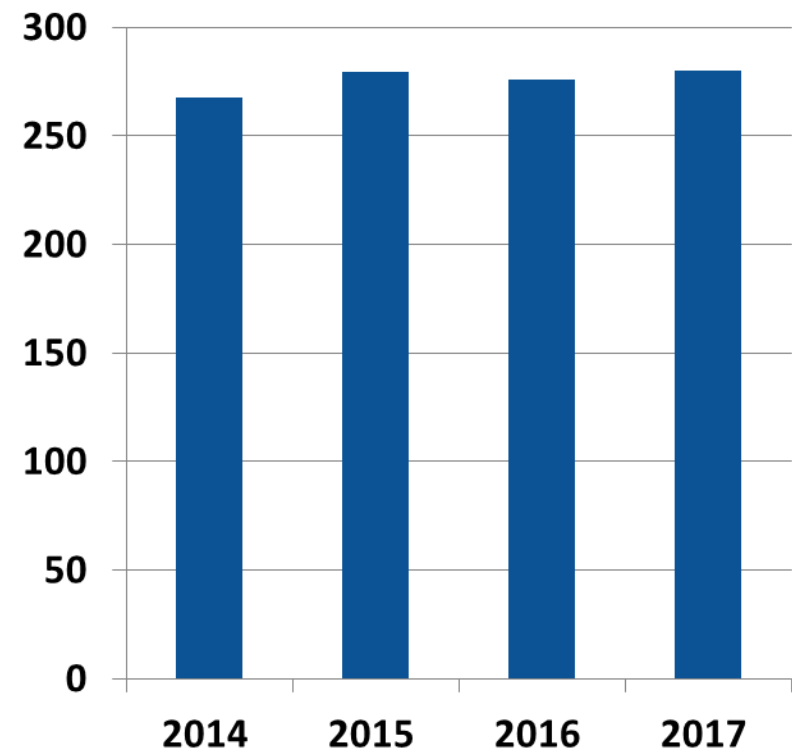
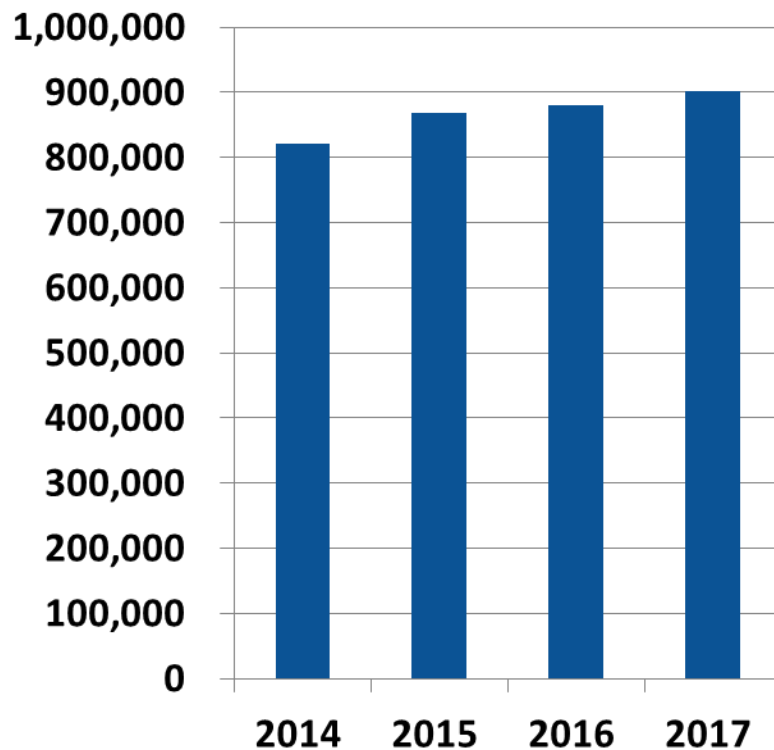
1-1. Sales Volume & Value by Adhesive

Volume : ton

2014	2015	2016	2017
821,151	867,987	879,388	901,438

Amount : billion yen

2014	2015	2016	2017
267.9	279.4	275.9	280.2

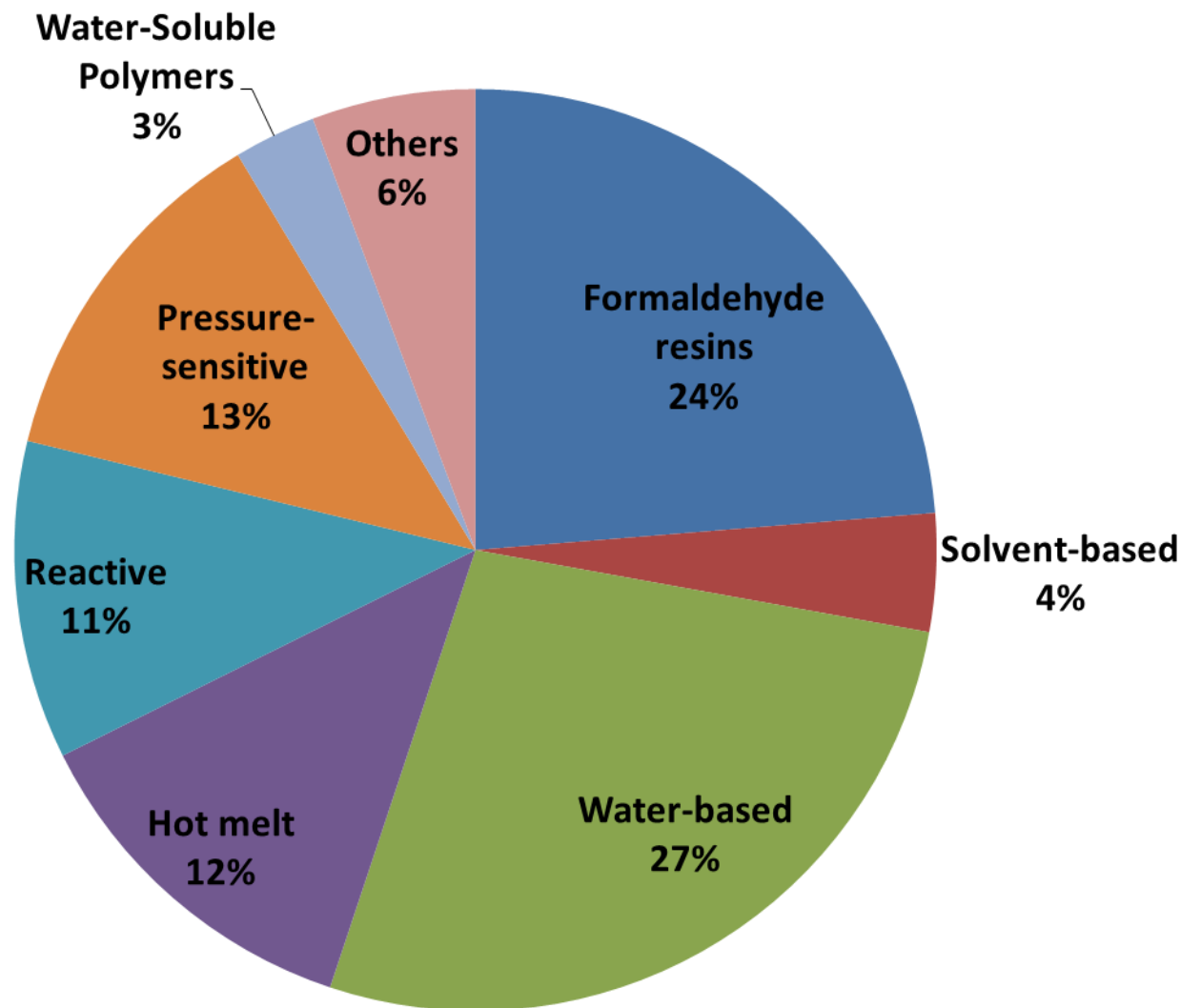




1-2. Sales Volume & Value by Adhesive Types

Adhesive type	Sales Volume (type)				Sales Value
	unit : ton				Billion yen
	2014	2015	2016	2017	2017
Formaldehyde resins	204,546	206,359	201,995	213,797	20.1
Solvent-based	39,372	38,564	38,502	37,301	21.1
Water-based	227,871	235,819	237,157	245,653	48.5
Hot melt	104,391	108,747	109,118	112,996	57.2
Reactive	101,929	98,913	98,300	100,645	81.3
Pressure-sensitive	121,041	113,066	115,092	113,390	35.2
Water-Soluble Polymers	-	17,129	25,456	25,939	5.7
Others	22,001	49,389	53,769	51,717	11.1
Total	821,151	867,987	879,388	901,438	280.2

1-3. Sales Volume by Adhesive Types



1-4. Sales Volume by Adhesive Application

Application 7 Categories	Application Old 11 Categories	Sales Volume (application) unit : ton			
		2014	2015	2016	2017
Woodworking and Joinery	Plywood/Woodwork	243,577	251,085	258,728	272,632
Building/Construction/Civil Engineering/Craftsmen	Construction	146,024	157,401	164,051	169,006
Paper, Board and Related Products	Paper & Book Binding	36,048	36,024	35,736	34,620
	Packaging	99,217	103,834	106,369	107,293
	Textile	59,874	47,446	49,564	51,414
	total	195,139	187,304	191,669	193,327
Transportation	Transportation	53,478	53,775	54,867	58,646
Footwear and Leather	Shoes, rubber & Leather	2,465	2,319	2,391	2,317
Consumer/Do-It-Yourself (Retail)	Household	5,338	4,645	5,634	4,646
Assembly Operations	Assembly Operations	-	20,199	15,760	17,826
	Electric Machinery	39,147	36,938	38,082	41,685
	total	39,147	57,137	53,842	59,511
Others		93,530	112,219	100,721	90,660
Domestic sub total		778,698	825,885	831,903	850,745
Export		42,453	42,102	47,485	50,693
TOTAL		821,151	867,987	879,388	901,438
Inport		13,443	14,366	17,814	20,155

1-5. Production Volume by Adhesive Types

Adhesive type	Production Volume			
	unit : ton			
	2014	2015	2016	2017
Formaldehyde resins	230,375	238,593	240,043	256,658
Solvent-based	39,632	39,200	38,161	36,455
Water-based	231,579	236,610	236,084	245,650
Hot-melt	106,965	106,000	105,484	110,540
Reactive	93,316	92,785	92,978	100,732
Pressure-sensitive	146,375	139,838	140,623	142,402
Water-Soluble Polymers	—	16,156	24,492	25,822
Others	22,305	50,009	55,309	52,839
Total	870,547	919,190	933,173	971,099

Sealant (kℓ)	90,754	89,128	89,588	89,533
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1-6. Production Volume by Adhesive Items (1)

	ITEMS	2016	2017
Formaldehyde	Urea	49,512	52,033
	Melamine	48,670	47,188
	Phenol	141,861	157,437
	Subtotal	240,043	256,658
Solvent Based	PVAc solvent-type	1,151	1,322
	Other solvent-type resin	8,955	9,034
	C R solvent-type	8,663	8,637
	Other synthetic rubber	10,679	12,369
	Natural rubber solvent-type	983	1,044
	Polyurethanes	2,208	2,108
	Acrylic	4,124	373
	Silicone	0	0
	PVC copolymers	1,397	1,567
Subtotal	38,161	36,455	

Production Volume by Adhesive Items (2)

ITEMS		2016	2017
Water-based Adhesives	PVAc emulsion	82,224	84,767
	PVAc copolymer emulsion	6,048	7,100
	EVA Emulsion	41,866	40,143
	Acrylic Emulsion	62,532	65,038
	Other resin Emulsion	11,058	12,358
	Isocyanate	20,124	22,880
	Synthesized Rubber	6,421	4,874
	Synthetic rubber latex	1,009	2,199
	Natural rubber latex	416	389
	Other water-based	4,387	5,903
Subtotal		236,084	245,650
Hot Melt	EVA	28,483	28,602
	Rubber	57,026	60,458
	Polyolefin (PE_ PP_ APP)	12,929	13,840
	Polyamide (PA)	15	17
	Polyester_ saturated (SP)	0	0
	Polyurethane	1,727	1,686
	Others	5,303	5,937
Subtotal		105,484	110,540

Production Volume by Adhesive Items (3)

ITEMS		2016	2017
Reactive	Epoxy	19,114	20,140
	Cyanoacrylate	871	904
	Polyurethane	43,174	48,310
	Modified silicone	23,130	26,954
	Acryl	1,997	1,792
	Polyester unsaturated (UP)	0	38
	Others	4,692	2,594
Subtotal		92,978	100,732
PSA	Acryl	122,642	124,155
	Rubber	16,337	17,538
	Others	1,644	710
Subtotal		140,623	142,402
Natural Polymers	Vegetable	25,598	24,596
	Protein	0	0
	Animal glues etc.	175	170
Subtotal		25,773	24,766

Production Volume by Adhesive Items (4)

ITEMS		2016	2017
Water-Soluble Polymers	Polyvinyl Alcohol	22,718	23,869
	Cellulose Ethers	1,122	1,222
	Methylcellulose	300	275
	Carboxymethylcellulose	0	0
	Polyvinylpyrrolidone	64	45
	Other	288	411
Subtotal		24,492	25,822
Other adhesives		10,107	8,643
Industrial-use Sealants		19,429	19,430
Total		933,173	971,099

THANK YOU VERY MUCH!

謝謝

감사합니다!

有難うございました