



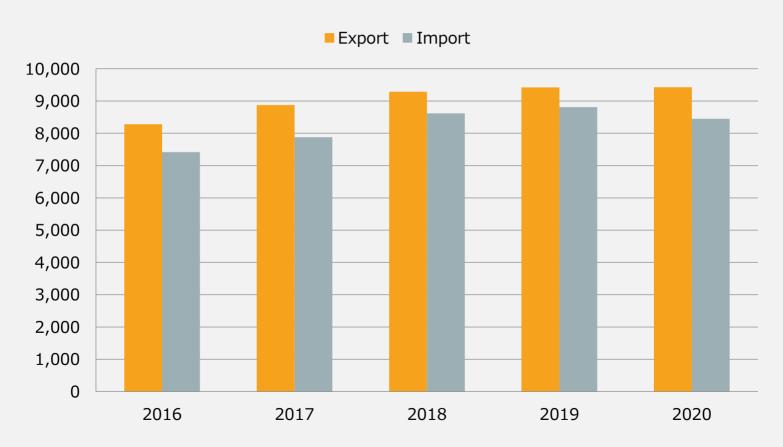
# THE ADHESIVES MARKET AND TRENDS IN TAIWAN

Taiwan Synthetic Resins & Adhesives
Industrial Association
Yu-Chih Lin Chairman
October, 2021



### 2016-2020 Overview of Export And Import of Taiwan

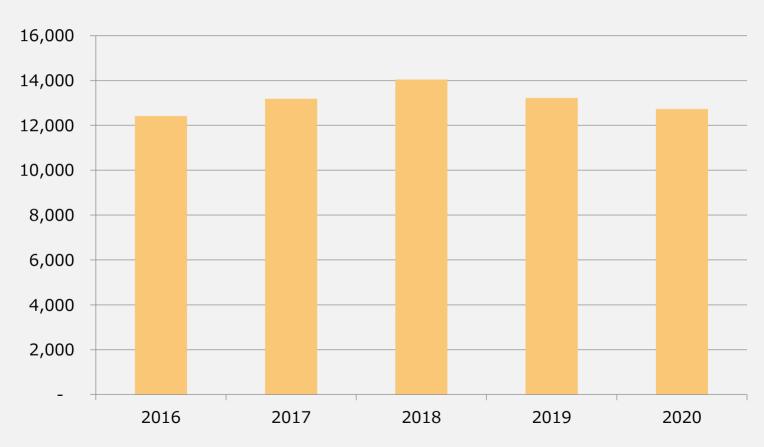
**Unit: Billion TWD** 





# 2016-2020 Production Value of Manufacture Industry in Taiwan

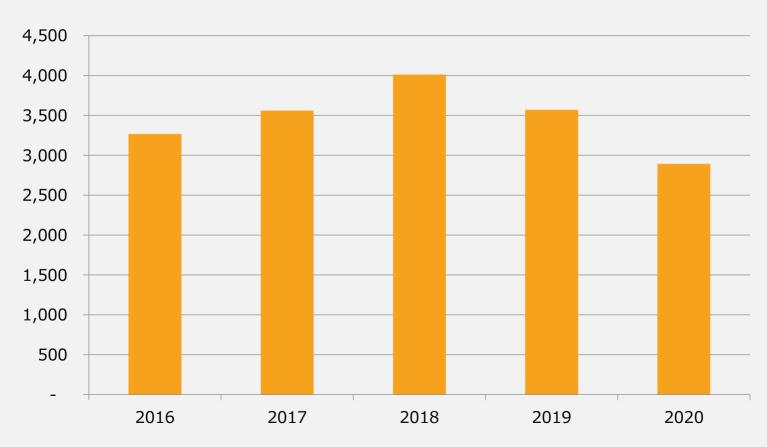
#### **Unit: Billion TWD**





# 2016-2020 Production Value of Chemical Industry in Taiwan

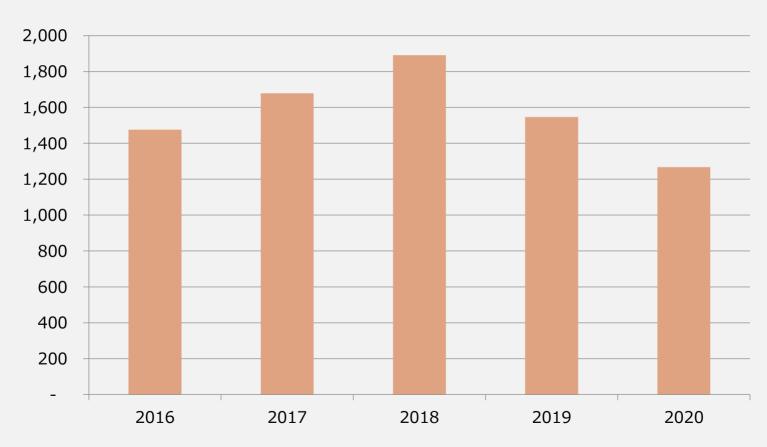
#### **Unit: Billion TWD**





# 2016-2020 Production Value of Petrochemical Industry in Taiwan

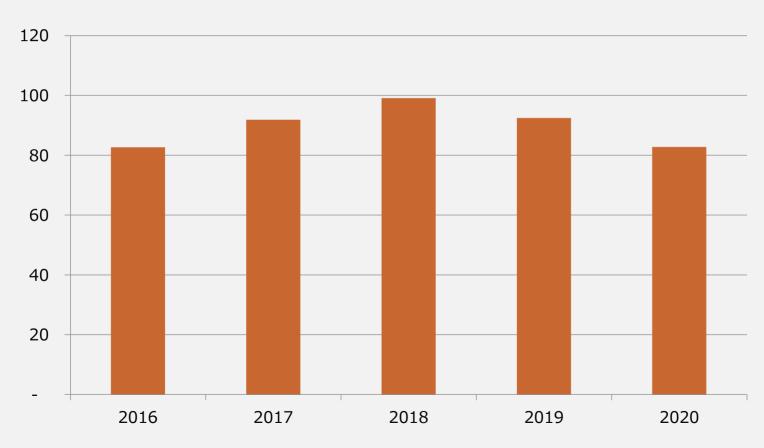
#### **Unit: Billion TWD**





# 2016-2020 Production Value of Synthetic Resin Industry in Taiwan

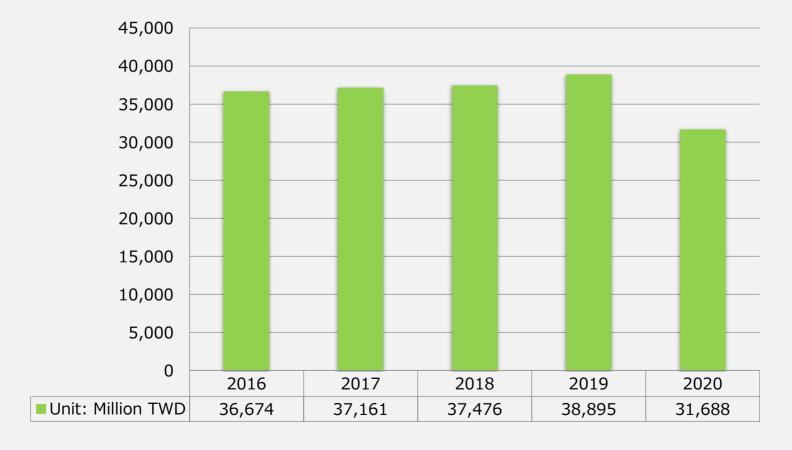
#### **Unit: Billion TWD**





# 2016-2020 Sales Value of Adhesive Industry in Taiwan

#### CAGR during 2016-2020 is -3.59%

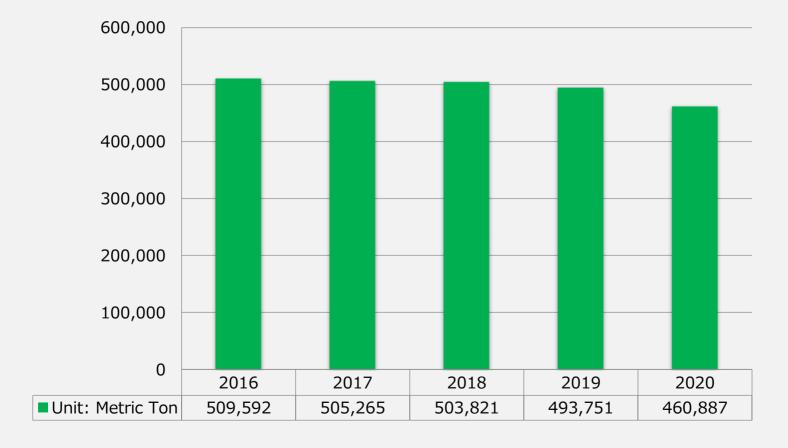


Resource: TSRAIA TAIWAN (2021/08)



# 2016-2020 Sales Volume of Adhesive Industry in Taiwan

#### CAGR during 2016-2020 is -2.48%



Resource: TSRAIA TAIWAN (2021/08)



### 2016-2020 Sales Volume by Adhesive Type

**Unit: Metric Ton** 

Туре	2016	2017	2018	2019*	2020*
Formaldehyde resin	47,869	46,386	46,416	-	-
Solvent-based	36,692	37,675	37,980	39,873	51,801
Reactive	108,357	113,115	113,499	150,434	122,071
Hot melt	46,886	44,128	42,921	42,063	20,577
Water-based	197,280	191,961	190,763	190,588	196,271
PSA	67,448	67,133	67,412	66,060	65,487
Sealant	5,060	4,870	4,830	4,733	3,680
Total	509,592	505,268	503,821	493,751	459,887

<sup>\*</sup>In 2019 and 2020, formaldehyde resin has been merged into other adhesive types

Resource: TSRAIA TAIWAN (2021/08)



# 2020 Sales Volume by Adhesive Items (1/3)

Туре	Item	Volume (Metric Ton)
Solvent based	Chloroprene rubber	8,889
	Polyurethane	28,857
	Acrylic	7,958
	Others	4,953
	Other synthetic rubber	1,144
	Subtotal	51,801
Reactive	Ероху	113,564
	Cyanoacrylate	294
	Polyurethane	2,038
	Formaldehyde condensates	5,106
	Others	1,069
	Subtotal	122,071

Resource: TSRAIA TAIWAN (2021/10)



# 2020 Sales Volume by Adhesive Items (2/3)

Туре	Item	Volume (Metric Ton)
Hot melt	EVA	14,493
	PA	1,350
	Synthetic rubber	4,467
	Polyurethanes	240
	Others	27
	Subtotal	20,577
Water-based	Vinyl acetate	28,961
	EVA emulsion	140,918
	Acrylic emulsion	6,172
	Synthetic rubber latex	171
	PUD	18,776
	Others	1,273
	Subtotal	196,271

Resource: TSRAIA TAIWAN (2021/10)

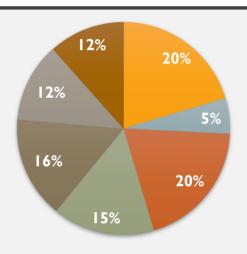


### 2020 Sales Volume by Adhesive Items (3/3)

Туре	Item	Volume (Metric Ton)
PSA	Acrylic	45,841
	Rubber	19,646
	Subtotal	65,487
Sealant	Polysulfide	53
	Others	3,627
	Subtotal	3,680
	459,887	



### 2020 Sales Volume by Adhesive Application



- Paper, Board and Related Products
- Transportation
- Footwear and Leather
- Consumer/Do-It-Yourself (Retail)
- Building/Construction/Civil Engineering/Craftsmen
- Woodworking and Joinery

No	Market Segment	Consumption ( Metric Ton)
1	Paper, Board and Related Products	61,114
2	Transportation	16,177
3	Footwear and Leather	58,717
4	Consumer/DIY(Retail)	46,434
5	Building/Construction/Civil Engineering/Craftsmen	46,445
6	Woodworking and Joinery	35,949
7	Assembly Operations/Other	34,741
Domestic Subtotal		299,577
Export Subtotal		160,310
	Total	459,887

Resource: TSRAIA TAIWAN (2021/10)



### **Summary of Adhesive Market**

- ✓ The sales volume of the adhesive industry keeps the same level during 2016-2019. The volume dropped around 6.6% in 2020 due to the impact of the Covid-19 pandemic.
- √ The water-based and reactive adhesives occupy nearly 70% market share of total adhesive sales volume in Taiwan 2020. It shows that environmentally friendly and high-performance adhesives are the mainstream in Taiwan's adhesive industry...
- √ The main applications of adhesives are majorly used in Paper, Board, and Related Products, secondly are in Footwear and Leather.



### **Developing Trends of Taiwan's Adhesive Industry**

Efficiency Improvement



For Example, Nanpao resins planed to introduce AI in production processes.

High Performance



For Example, Cartell Chemical(MXBON) and Arkema(BOSTIK) formed a new joint venture Crackless Monomer Company(CMC) for high value-added engineering adhesives.







For Example, Tex Year and ITRI collaborated on the Bio-Degradable Adhesive.