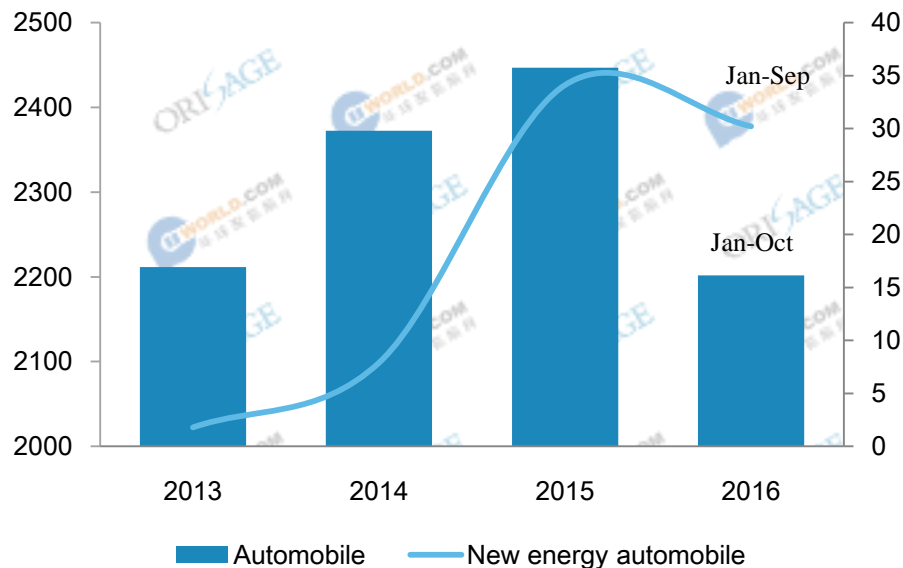


## The One Who Wins the Automobile, Wins the World

Automobile production In China during 2013-2016 (unit: 10k)



### As for annual production of a million vehicles:

Car interior wiring material consumption are as below:

- Insulation material demand is about 1000 tons
- Sheath material demand is about 1500 tons

### As annual production of about

#### 1 million new energy automobile:

- 200,000 charging piles are needed

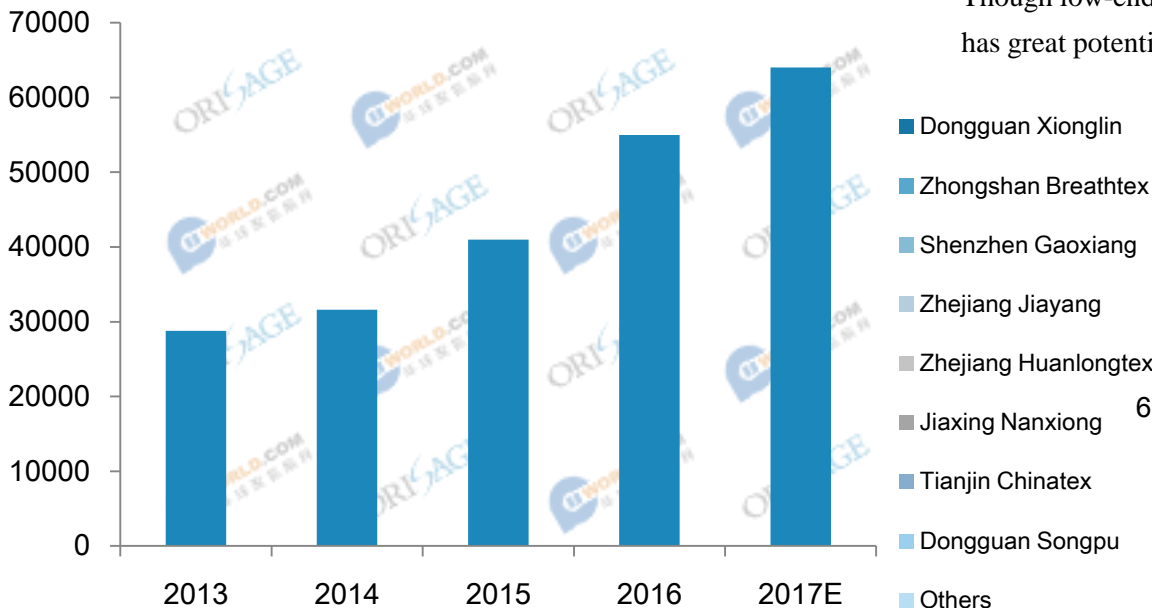
#### If to make 200,000 charging piles:

- Insulation material demand is about 900 tons
- Sheath material demand is about 1500 tons

# As Film Industry Is Developing Rapidly, Can It Become the Future Blue Sea?

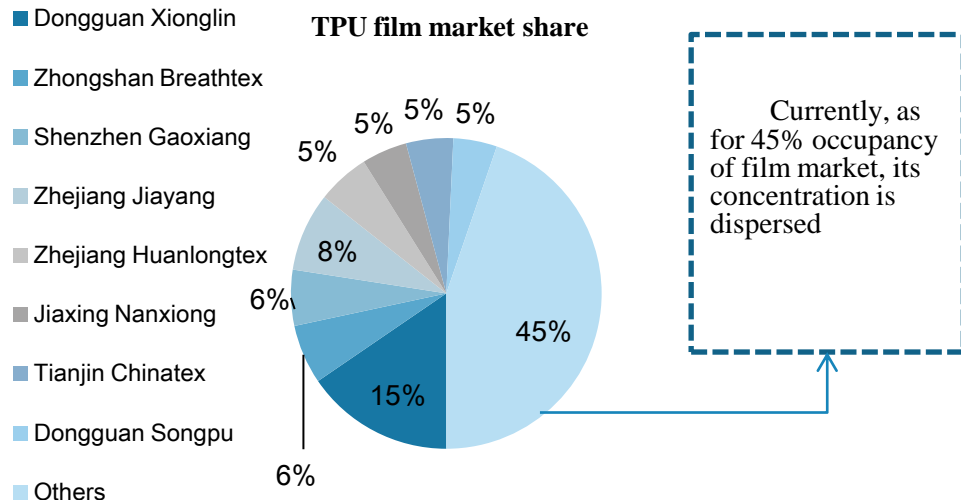
**Consumption of TPU by film market during 2013-2017:**  
(unit: ton)

Data resource: OriSage Consulting Co., Ltd.



In recent 2 years, TPU film market develop rapidly, and product R&D and involved fields are constantly upgrading and expanding. Though low-end market shows signs of saturation, its high-end market has great potential, which may still witness growth in the future.

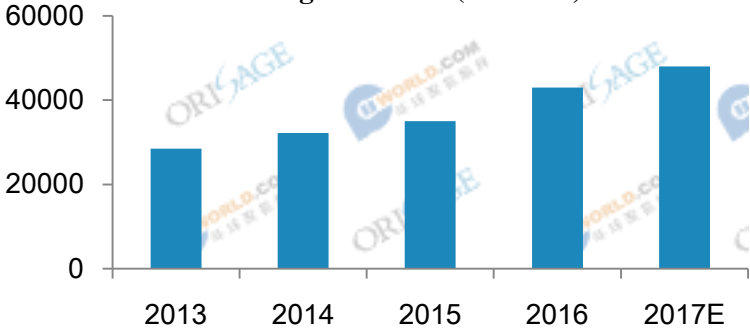
**TPU film market share**



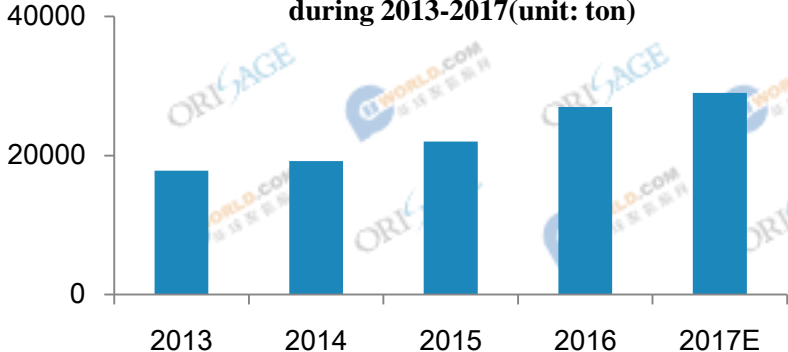
Currently, as for 45% occupancy of film market, its concentration is dispersed

Traditional Industries Witness Steady Growth

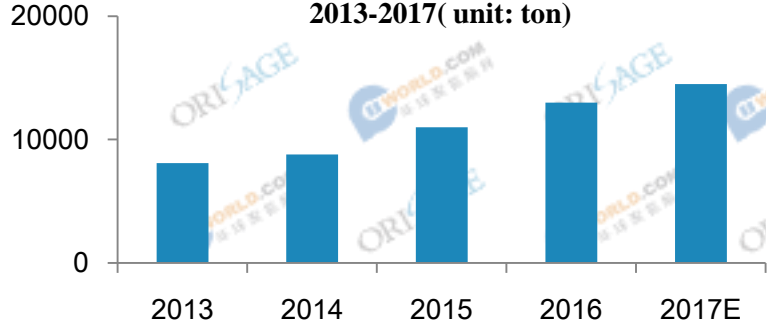
Consumption of TPU by adhesive industry during 2013-2017 (unit: ton)



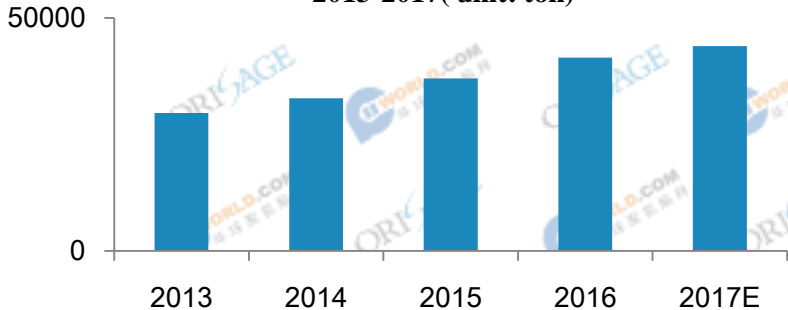
Consumption of TPU by synthetic feather industry during 2013-2017 (unit: ton)



Consumption of TPU by roller industry during 2013-2017 (unit: ton)



Consumption of TPU by piping industry during 2013-2017 (unit: ton)



- TPU upstream raw material has experienced feverish growth in the latter half of 2016. Currently, pure MDI, AA, BDO, PTME all tend to remain at high level. The manufacturers still have the intention of raise TPU price. It is expected that before Spring Festival, TPU price may witness a slight increase. By 2017, after crude oil and coal price goes down and the manufacturers start stable production, TPU price is expected to gradually drop down.
- In 2016, the whole TPU market witness stable development and downstream consumption witness a steady growth. However, due to constantly rising price of upstream raw material, TPU price has to go up significantly. It is estimated that by 2017, raw material price will go down and TPU cost pressure will alleviate, so TPU price will gradually drop down.
- In TPU downstream, competition is becoming increasingly fierce. Among consumption by traditional industries, TPU manufacturer shall pay attention to substitution of industrial original material by TPU itself as well as to TPU modification so as to make up for TPU imperfection in various industries. In this way, TPU can better and reasonably replace industrial original material. In current emerging industries, great efforts in TPU production technology and cost control can enable people to easily accept emerging industries, which will be the key for TPU to open these industries.

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