

# The Consumer Perception On Balinese Local Culture-Based Packaging Design on white Oyster Mushroom Chips (Pleorotus Ostreatus)

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# The Consumer Perception On Balinese Local Culture-Based Packaging Design on white Oyster Mushroom Chips (Pleorotus Ostreatus)



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packaging design;  
white oyster;

### Abstract

Food products competition of Micro, Small and Medium Enterprises (MSMEs) is due to the products of local businesses and imported products, both legal and illegal from China, Malaysia, Singapore, Thailand, and Japan. This is because most of the products of Micro, Small and Medium Enterprises (MSMEs) are less attractive, innovative and creative packaging. Food products are only wrapped in transparent plastic without any label or information, thus giving the impression of being less attractive. This makes Indonesian Micro, Small and Medium Enterprises (MSME) products less competitive compared to manufactured products and products from abroad. The packaging is one of the important marketing tools, not just as a wrapper. The packaging is a process related to the design and manufacture of containers or wrappers for a product. Packaging must be designed with a suitable shape and size and graphic design must be able to attract buyers. One of the graphic design elements as an attractive design of white oyster mushroom chips (*Pleorotus Ostreatus*) packaging as a souvenir is the use of Balinese local cultural markers in packaging design. Theories used in this study are the theory of semiotics and visual communication design theory in particular about product packaging. The method used is a descriptive qualitative method. The data collection method uses the method of observation, interviews, literature, and documentation. It can be concluded from the study that the local cultural markers on the main display panel as an eye-catcher that is used as an illustration on the packaging design of white oyster mushroom chips (*Pleorotus Ostreatus*) are very diverse such as the use of Balinese black and white checkered motif or *poleng anyar*, *patra punggel* illustrations, and illustrations of *Payas* / Balinese fashion styles, each of which has a philosophical meaning and is always used in various Hindu ceremonies in Bali. Statistical analysis shows that the effect of packaging design on consumer perception is assessed positively and significantly.

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## 1 Introduction

Bali as a tourist destination is known to have natural beauty with distinctive panoramas, cultural diversity and the most amazing thing is the friendliness of its people who always greet visitors with a friendly atmosphere. The social life of Balinese people who are religious with religious activities that are always associated with artistic activities has made Bali an area that has a unique culture that encourages the establishment of Micro and Medium Enterprises (UMKM) in the culinary sector as a support for tourism activities which are very important to meet the food needs of tourists and simply as souvenirs typical of an area. White oyster mushroom chips are one of the souvenir products that are now being developed in Bali.

White oyster mushroom chips are one of the processed oyster mushrooms which is very popular with most people both from children, adolescents, adults and even parents in the form of fresh food and packaged products. White oyster mushroom chips that are only packaged modestly are certainly not suitable to be used as commodities in the typical Balinese souvenir market.

Food products competition of Micro, Small and Medium Enterprises (MSMEs) is due to the products of local businesses and imported products, both legal and illegal from China, Malaysia, Singapore, Thailand, and Japan. This is because most of the products of Micro, Small and Medium Enterprises (MSMEs) are less attractive, innovative and creative packaging. Food products are only wrapped in transparent plastic without any label or information, thus giving the impression of being less attractive (Ministry of Cooperatives and SMEs, 2016). This makes Indonesian Micro, Small and Medium Enterprises (MSME) products less competitive compared to manufactured products and products from abroad. The packaging is a process related to the design and manufacture of containers or wrappers for a product (Tjiptono, 2007; Ariani *et al.*, 2018). Packaging must be designed with a suitable shape and size and graphic design must be able to attract buyers. One of the graphic design elements as an attractive design of white oyster mushroom chips (*Pleurotus Ostreatus*) packaging as a souvenir is the use of Balinese local cultural markers in packaging design.

At present, the issue of packaging design and packaging is a very important global industry. The importance of packaging can be seen from the fact that it is almost impossible to find products sold in the market without packaging. Packaging techniques, packaging design, and selection of appropriate packaging materials require a lot of considerations but still aim at the main goal that the packaging must provide optimal protective properties. Damage to the product is caused by light, oxygen, humidity, microbes or insects that affect the quality, nutritional value and shelf life. Packaging must be designed with a suitable shape and size and graphic design must be able to attract buyers. Packaging is not only required to fulfill basic functions as a container, protection and preservation, communication media, and ease of use, but packaging is also required to be environmentally friendly and active in providing product protection (active packaging) as well as intelligent packaging in providing information on the product (Sucipta & Suriasih, 2016; Suryasa, 2019).

According to Klimchuk & Krasovec (2007), in designing packaging, the basic principles of design are adjusted to meet the objectives of each design task. There are many variables that influence how and why packaging design can attract consumers from a pure design perspective (transferring other marketing variables such as price, location, and brand loyalty) there are important elements that capture consumers' attention very well and break through the attention of the visual crowd in the competitive retail. The four main focal points are color, physical structure, and shape, symbols and numbers and typography. Packaging design that can serve the intended target market must be in accordance with the local culture, appropriate and accurate language order, visually logical and competitively designed.

The White Oyster Mushroom (*Pleorotus Ostreatus*) Chips Company, which is being developed in Bali, is currently considering design aspects because its main purpose is to be a souvenir, so the businessmen pack their products using local Balinese cultural signs. A sign is something that for someone means something else (Zoest, 1993; Suarta, 2017), meanwhile the local culture in question is the local values of the results of community cultivation in an area that is naturally formed and obtained through the process of learning from time to time, one of them in the form of art and tradition. Signs of local culture that are used as illustrations in the design of white oyster mushroom chips packaging include; the use of *poleng* or black and white checkered motifs and *patra punggol* on each package, the use of Balinese ornaments, *Barong Ket* illustrations, *meru tumpeng solas* or eleven-storey Balinese temple roof illustrations, and *Payas Bali* or Balinese makeup illustrations. In Bali, the signs of the local culture certainly have their own meanings that are both sacred and profane and have their own meaning and philosophy. The research question is: what exactly the meaning of each local cultural identity that is applied to the packaging design of white oyster (*Pleorotus Ostreatus*) mushroom chips? This study aims to determine the meaning contained in each local cultural identity that is applied to the packaging design of white oyster mushroom (*Pleorotus Ostreatus*) chips.

## 2 Materials and Methods

This research was conducted at the Denpasar Design Center, Jalan Melati number 31 Denpasar Bali using a descriptive qualitative method that will explain the meaning of local cultural identity on the packaging design of white oyster mushroom chips (*Pleorotus Ostreatus*) as the appeal of packaging and the application of the basic principles of art and design to visual design elements that add aesthetic value to the product. Data analysis in this study uses a semiotic and aesthetic approach.

The material used in this study is white Art Paper with a thickness of 250 grams. The tools used in this study are computer or laptop, CorelDRAW 11 software, printer, scissors, ruler, cutter, double-sided tape, and glue. Data inventorying in this study is in the form of primary data and secondary data. Secondary data consists of data on the number of MSMEs in Bali Province and Central Agency of Statistics or BPS data of 2017. Primary data were obtained from the process of making packaging designs, observing and recording local cultural signs used as illustrations in the design of mushroom chip packaging white oysters, among others; the use of *poleng anyar* motifs and *patra punggol* on each packaging, the use of Balinese ornaments, and Balinese *Payas* illustrations and other supporting data that are filled out on the questionnaire form. The design data were then made into CorelDRAW X7 Software. The process has produced the packaging design of white oyster mushroom (*Pleorotus ostreatus*) chips. There is three data analysis in this study i.e. by using semiotic, aesthetic and quantitative approach.

## 3 Results and Discussions

### 3.1 The meaning of packaging on white oyster mushroom (*Pleorotus ostreatus*) chips

On each packet of white oyster mushroom (*Pleorotus ostreatus*) chips displaying local cultural elements as its appeal, it is seen on the middle side of the package using *poleng* motifs. Each of the local cultures displayed on this package has a sacred meaning for Hindus, especially in Bali, as an example of the use of *poleng* motifs or *saput poleng* or black and white checkered clothes. *Poleng* is a checkered motif with a combination of black



and white colors, sometimes between the two colors interspersed with red (Rupawan, 2008; Korry *et al.*, 2017; Jaminyasa *et al.*, 2017).

In Bali the use of *saput poleng* is always associated with religious ceremonial activities, especially Hinduism, such as *saput poleng* that is wrapped around certain trees (large banyan trees, *pule* trees), and on statues that function as guards for example statues on bridges, on doors gates, at crossroads and others, wrappers in *sesabukan* (magical belt used to gain bodily strength), wrapped around the *kukul* (wooden drum), wrapped around *arub* (weapons such as sickles stored in temples), and ceremonial spears. In addition, *saput poleng* is also wrapped around *Pelinggih Ratu Ngerurah* and *Tunggun Karang*. Besides being placed in the sacred places, *saput poleng* are also worn by *pecalang* (traditional village security guards), *balian usadha* (traditional healers) and *Jero Dalang* (puppeteers) in their capacity as *penguwat* (purification).

According to Rupawan (2008), *saput poleng* is divided into 3 types based on their color: (1). *Poleng rwabhinedha*, which is a white and black poleng motif and has a philosophical meaning that shows the values of *rwabhinedha* namely the concept of difference created by *Ida Sang Hyang Widhi Wasa*, the Almighty God to create harmony and balance of the universe, (2). *Poleng sudhamala*, which are white, gray and black *poleng* motifs. This color is a reflection of *rwabhinedha* accompanied by intermediaries as harmonizers in *rwabhinedha*. The gray color is as a mediator of good and bad traits in *rwabhinedha*. (3). *Poleng Tridatu*, which is a white, black and red *poleng* motif. White is identical to consciousness or wisdom, red is energy or motion, and black symbolizes inhibitors. When associated with *Tri Murti*, the red color is the symbol of Brahma as the creator, the black color of Lord Vishnu as the preserver, and the white color of Lord Shiva as the destroyer. These three gods are associated with life, namely; born, lived and died.

In addition to using the *poleng rwabhinedha* motif, some packaging designs of white oyster mushroom (*Pleurotus Ostreatus*) chips also use patterns not like *poleng* motifs in general, but use a variety of colors, such as the gradation of yellow and light green colors called the *poleng anyar* motif or new *poleng* motifs that appear later and are permeating the functions of the three *poleng* colors that precede it (Rupawan, 2008). *Poleng Anyar* motif is a motif that uses the same patterns as the previous *poleng* motif, but uses a variety of color combinations. The presence of new *poleng anyar* motifs because the *poleng* motif itself has become a local Balinese cultural identity so that it is not only used on sacred ceremonies but also profane in nature, both as decoration on the interior and exterior of hotels, restaurants and as visual elements of products visual communication design to meet the needs of tourism activities.

Newer *poleng* motifs based on color are divided into 12 (twelve) types, namely: (1). Newer *poleng* motif in blue, light blue and white, (2). Newer *poleng* motif in blue, black and white, (3). Newer *poleng* motif in red, pink and white, (4). Newer *poleng* motif in red, pink and black, (5). Newer *poleng* motif with green, light green and white color, (6). Newer *poleng* motif in green, light green and black, (7). Newer *poleng* motif in yellow, light yellow and black, (8). Newer *poleng* motif in yellow, light yellow and white, (9). Newer *poleng* motif in purple, light purple and black, (10). Newer *poleng* motif in purple, light purple and white, (11). Newer *poleng* motif with orange, light orange and black, and (12). Newer *poleng* motif with orange, light orange, and white.

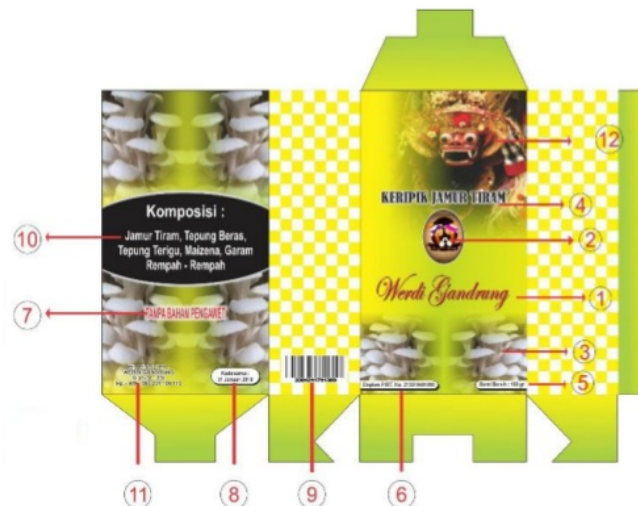
In addition to the illustration of *poleng* motifs, local cultural signs displayed on the packaging of white oyster mushroom chips are the use of *patra punggol* which has been sterilized into simpler forms. This *patra punggol* is displayed by combining it face to face. *Patra punggol* is a type of *patra* that has an identity as an authentic Balinese *patra*. This assumption is based on the names of the elements of the motifs that make it up, namely the combination of animal and plant stilization that lives and grows in Bali. These elements include jackfruit pulp, *batun poh* (mango seed), *kepitan* ( the petals on jackfruit), *util* (top of a circular fern stem), *jangar siyap* (rooster's comb) and ears of suckling pig.

The basic color of all white oyster mushroom chip packs (*Pleurotus Ostreatus*) uses a light green base color that tends to turn yellow, which has a fresh, light, pleasant, and natural meaning. The label contains the product name, logo and trademark, type of product, product net weight, licensing (P-IRT), product description, expiration date, barcode, composition, nutritional facts, address and manufacturer's description.

On the packaging of chips of the private label using traditional Balinese payas as an element of local culture. The basic concept of traditional Balinese clothing is the *Tri Angga* concept which consists of: (1). *Dewa angga*, i.e. clothing that is used from the neck to the head can be a *udeng* / headband and *pepusungan*, (2). *Manusa angga*, which is clothing that is used from above the navel to the neck can be in the form of clothes, *kebaya*, and *saput*, (3). *Butha angga*, which is clothing that is used from the navel to the bottom can be cloth/*kamen*.

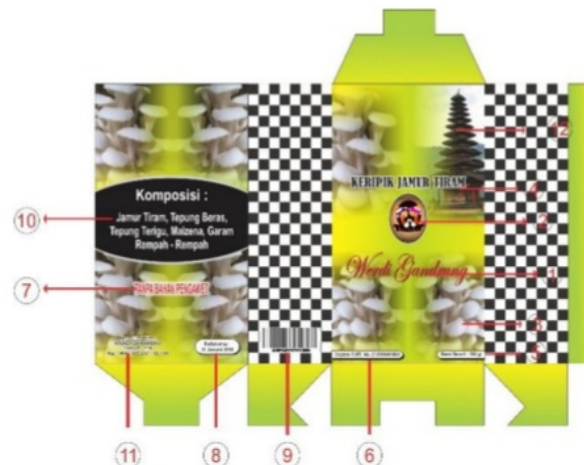
## Description:

1. Name
2. Logo
3. Trademark
4. Product Type
5. Net Weight
6. Licensing
7. Product Description
8. Expiry date
9. Barcode
10. Composition
11. Address and Producer's details
12. *Barong Ket* illustration

Picture 1. Packaging design with *Barong Ket* illustration

## Description:

1. Name
2. Logo
3. Trademark
4. Product Type
5. Net Weight
6. Licensing
7. Product Description
8. Expiry date
9. Barcode
10. Composition
11. Address and Producer's details
12. Illustration of Meru Tumpang Solas

Figure 2. Design packaging with *Meru* illustration

## Description:

1. Name
2. Logo
3. Trademark
4. Product Type
5. Net Weight
6. Licensing
7. Product Description
8. Expiry date
9. Barcode
10. Composition
- 11 Address and Producer's details
12. Illustration of Balinese Dancers



Figure 3. Packaging design with Payas Bali/ Balinese make-up Illustration

## 3.2 Analysis and discussion

## a) Characteristics of respondents

After the questionnaires were distributed, it was obtained the results of data collection from respondents' answers namely the description of the identity of respondents as many as 180 people. The questionnaire comprises the respondent's profile and questions related to the study which consisted of a name, gender, employment status, and marital status.

Table 1  
Characteristics of Respondents

Characteristics of Respondents	Number of people	Percentage (%)
<i>Sex</i>		
Male	55	30,6
Female	125	69,4
<i>Age</i>		
30-40 years old	44	24,4
41-50 years old	91	50,6
51-60 years old	32	17,8
>60 years old	13	7,2
<i>Job-status</i>		
Civil Servants	74	41,1
Self-employed	15	8,3
Housewives	21	11,7
Employees	52	28,19
Retired	4	2,2
Others	14	7,3
<i>Marital Status</i>		
Married	106	58,9
Single/Widow/Widower	74	41,1
Total	180	100,00

Based on the table above, male respondents were 55 people (30.6%) and female respondents were 125 people (69.4%), respondents aged 41-50 years old were the most (50.6%), while respondents aged > 60 years old were the fewest (7.2%), respondents of civil servants were the largest, as many as 74 people (41.4%) and



the least were retired respondents as many as 4 people (2.2%), married respondents were 106 people (58.9%) and those single/widowed/widower respondents were 74 people (41.1%).

#### b) Instrumental test

##### Validity and reliability tests

These tests were carried out with the aim of measuring the validity or invalidity of a questionnaire item. Correct item-total correlation or  $r$  table must be smaller than  $r$  count with a significance level of 5%. The data is said to be valid if the validity test of  $r$  table  $< r$  count. In this study, the researchers used  $r$  table with a significant level of 5% and a total of 180 respondents.

The reliability test aims to determine the consistency/conditions of measurement results of an instrument if the instrument is used again as a measurement tool for an object/respondent. One of the reliability testing methods is the Alpha-Cronbach method. If a data score above 0.5, the research is reliable. The following table presents the reliability testing of each variable. The results of the analysis of all Alpha-Cronbach values obtained from each variable are  $> 0.5$ , thus, it can be said that all the values of each variable are reliable.

Table 2

Test results of validity and reliability of research instruments variable quality of the packaging design, packaging design materials, label innovations in packaging design and the consumers' perception

Variables	Statement Items	Correlation coefficient	Information	Alpha Cronbach	Description
Quality of Packaging Design	X1.1	0,889	Valid	0,955	Reliable
	X1.2	0,903	Valid		
	X1.3	0,877	Valid		
	X1.4	0,872	Valid		
	X1.5	0,877	Valid		
	X1.6	0,746	Valid		
Packaging Material Design	X2.1	0,773	Valid	0,903	Reliable
	X2.2	0,690	Valid		
	X2.3	0,841	Valid		
	X2.4	0,843	Valid		
	X3.1	0,733	Valid		
	X3.2	0,686	Valid		
Label Innovations in Packaging Design	X3.3	0,451	Valid	0,905	Reliable
	X3.4	0,578	Valid		
	X3.5	0,177	Valid		
	X3.6	0,764	Valid		
	X3.7	0,811	Valid		
	X3.8	0,786	Valid		
Consumer Perception	Y1	0,759	Valid	0,876	Reliable
	Y2	0,732	Valid		
	Y3	0,781	Valid		
	Y4	0,672	Valid		

#### c) Hypothesis testing

This hypothesis test is used to test the truth of the hypothesis, which states that the quality of packaging design, packaging design materials, and packaging label innovation are assumed to have a significant effect on consumer perception.

##### 1) Coefficient of determination ( $R^2$ )

The coefficient of determination measures how far the model's ability to explain the variation of the dependent variable. The value of the coefficient of determination is 0 (zero) and 1 (one). A small  $R$

Mahyuni, A. A. S., Sucipta, I. N., Adnyana, I. M., & Mahendra, M. S. (2019). The consumer perception on balinese local culture-based packaging design on white oyster mushroom chips (*Pleurotus ostreatus*). *International Journal of Life Sciences*, 3(3), 41-52. <https://doi.org/10.29332/ijls.v3n3.370>



square value means that the ability of independent variables to explain the dependent variables is very limited. A value close to one means that the independent variables provide almost all the information needed to predict the dependent variable.

Table 3  
Determination of coefficient test

Model	R	R Square	Standard of Error
1	0.769	0.592	2.213

Description:

- R square figures (correlation numbers and squared r) of 0.592. R square number is also called the coefficient of determination the magnitude of the coefficient of determination is 0.592 or equivalent to 59.2%. This figure shows the influence of the quality of packaging design, packaging design materials and packaging label innovation together on consumer perceptions, while the remaining 40.8% (100% - 59.2%) can be explained by other causative factors.
- The magnitude of the Standard Error of the Estimate (SEE) is 2.213 (for consumer perception variables). When compared with the standard deviation (STD) of 3.435, the SEE number is smaller. This means that the SEE number is a good predictor of a dependent variable which must be smaller than the standard deviation number (SEE < STD).

## 2) F test

The statistical F test basically shows whether all the independent variables intended in the model have a joint effect on the related / dependent variable. Decision-making based on probability is:

- If the probability is  $> 0.05$  then  $H_0$  is accepted and  $H_a$  is rejected
- If the probability is  $< 0.05$  then  $H_0$  is rejected and  $H_a$  is accepted.

Table 4  
Anova

Model		Sum of Squares	Df	Mean Square	F	Sig
1	Regression	1249,583	3	416,528	85,051	,00(a)
	Residual Total	861,945	176	4,897		
		2111,528	179			

According to Maydasari (2016), the Anova test shows the magnitude of the probability/significance number (sig) in the Anova calculation that will be used for the feasibility test of the regression model with the provisions that a good probability number to be used as a regression model must be smaller than 0.05. Table 7 above produces an F figure of 85,051 with a significance level (probability number) of 0,000.

The probability value is  $0,000 < 0.05$ , so this regression model is appropriate to be used in predicting consumer perception. This means that there is an influence on the quality of packaging design, packaging design materials and packaging label innovation on consumer perception.

## 3) Regression Coefficient

Describe a regression equation to find out the constant numbers and test the hypothesis of the significance of the regression.

Table 5  
Regression Coefficient

Model		Unstandardized Coefficients	Standardized Coefficients		T	Sig
		B	Std. Error	Beta		
1	(constant)	-1,481	,959		-1,545	,124
	Total design quality	,195	,077		2,530	,012
	Total packaging design materials	,225	,130	,240	1,725	0,86
	Total packaging innovation	,305	0,52	,169	5,822	0,00

The regression equation is:

$$Y = a + bX_1 + bX_2 + bX_3 \dots + bX_n$$

Where:

- Y : Dependent variable (consumer perception)
- a : Constant value
- b : Regression coefficient
- X<sub>1</sub> : Design quality (independent variable)
- X<sub>2</sub> : Packaging design material (independent variable)
- X<sub>3</sub> : Packaging design innovation (independent variable)

If it is included in the regression equation, it will be equal to:

$$Y = -1,481 + 0,195X_1 + 0,225X_2 + 0,305X_3$$

A constant value of -1,481 means that if there is a variable level of design quality, packaging design materials and packaging design innovation has decreased, then the level of consumer perception variables also decreased by -1,481.

The regression coefficient of X<sub>1</sub> is 0.195 which means that if the variable level of packaging design quality increases, the level of consumer perception variable also increases by 0.195. The regression coefficient of X<sub>2</sub> is 0.225 which means that if the variable level of packaging design materials increases, the level of consumer perception variables also increases. The X<sub>3</sub> regression coefficient is 0.305 which means that if the level of label innovation variables in packaging design increases, the level of consumer perception variables also increases by 0.305.

#### 4) T-test

The first t-test will be used to test the significance of the constants and the variable quality of packaging design, which are as follows:

- Hypothesis
  - Ho = The regression coefficient is not significant
  - H1 = The regression coefficient is significant

#### • Conclusion :

If t count < t table, then the following conditions are used:

$$\alpha = 0.05$$

$$DF = (\text{the amount of data} - 2) = 180 - 2 = 178$$

$$t_{\text{table}} = 1.653$$

Because t count (2.530) > t table (1.653), Ho is rejected, which means the regression coefficient for the variable of design quality is significant.

The second t-test will be used to test the significance of the constants and variables of packaging design materials, which are as follows:

- Hypothesis
  - Ho = The regression coefficient is not significant

H1 = The regression coefficient is significant

- Conclusion :

If t count < t table, then the following conditions are used:

$\alpha = 0.05$

DF = (the amount of data - 2) = 180 - 2 = 178

t table = 1.653

Because t count (1.725) > t table (1.653), H<sub>0</sub> is rejected, which means the regression coefficient for the variable of packaging design material is significant.

The third t-test will be used to test the significance of the constant and label innovation variables on packaging design, which are as follows:

- Hypothesis

H<sub>0</sub> = The regression coefficient is not significant

H<sub>1</sub> = The regression coefficient is significant

- Conclusion :

If t count < t table, then the following conditions are used:

$\alpha = 0.05$

DF = (the amount of data - 2) = 180 - 2 = 178

t table = 1.653

Because t-count (5.822) > t table (1.653), H<sub>0</sub> is rejected, which means the regression coefficient for label innovation variables in packaging design is significant.

#### 4 Conclusion

- Local cultural identities applied to the packaging of white oyster mushroom (*Pleurotus Ostreatus*) chips include *poleng* motif, *patra punggol*, *Barong Ket* illustration, *Meru Tumpang Solas* illustration, and *Payas Bali* illustration.
- The *poleng Rwabhineda* motif on the design of white oyster mushroom (*Pleurotus Ostreatus*) chips packaging contains a philosophical meaning that indicates the values of *rwabhinedha* namely the concept of difference created by Ida Sang Hyang Widhi Wasa to create harmony and balance of the universe, whereas the *poleng anyar* motif in the packaging design contains meaning permeation of the function of the three colors of *poleng* that precede it. *Poleng anyar* motif is a motif that uses the same patterns as the previous *poleng* motif, but uses a variety of color combinations. Meanwhile, the *patra punggol* on the packaging design is a type of *patra* that has an identity as an authentic Balinese *patra*.
- Based on a statistical analysis of the influence of packaging design on consumer perceptions assessed positively and significantly. The influence of design quality, packaging design materials and packaging innovation on consumer perception is found in the F count test of 85.051 and the probability value is 0.000 < 0.05 where 0.05 is the real level of the ANOVA test.

#### 1

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