

**Test Report No.** 5511007

**Date :** 9-Mar-2023

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**Client : Prepack Thailand Co., Ltd.**  
**30/145,Moo1,**  
**Khok Kham, Muang Samutsakhon, Samutsakorn 74000 Thailand**

The following sample(s) was/were submitted and identified by client as:

Sample Name : ONYLON (Nylon6)  
Sample Description : Plastic film  
Manufacturer/Vendor : PREPACK THAILAND CO.,LTD.  
Country of Origin : Thailand

The following sample(s) was/were identified by SGS as:

SGS Sample No. : 5763713  
Sample Condition : Sample is contained in a plastic bag.  
Quantity Submitted : 1 pack  
Sample Receiving Date : 21-Feb-2023  
Testing Period : 21-Feb-2023 to 9-Mar-2023

Test Method & Results : Please refer to next page(s).

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**Test Requested & Result Summary**

Test Requested : Please refer to the result summary (Test parameter(s) was/were selected by client).

**Result Summary:**

Test Requested	Conclusion
US FDA 21 CFR 177.1500 (Nylon Resins)	--
Nylon 6	
a) Specific gravity	PASS
b) Melting point	PASS
c) Solubility	PASS
d) Extractable fraction	PASS

**Remark:**

1. Test results in this report are applicable for the item tested and reflects the tested sample as received.
2. The decision rules based on simple acceptance which the probability of false accept may be as high as 50% in case the results is exactly on the tolerance limit.

**Signed for and on behalf of  
SGS (Thailand) Ltd.**



**Rutchuporn Mungsom  
Laboratory manager - Toy and Hard goods**

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**TEST RESULTS**

**US FDA 21 CFR 177.1500 (Nylon Resins)**

a) Specific Gravity

Method : With reference to 21 CFR 177.1500, determined at 23 Degree C

Test Item	Result (1)	Requirement
Specific gravity at 23 Degree C	1.136	1.135 - 1.165
Comment	PASS	--

Sample description :  
1. Transparent plastic (film)

Note : The test items was performed by SGS Hong Kong Ltd.

b) Melting Point

Method : With reference to 21 CFR.177.1500.

Test Item	Result (1) (F)	Requirement (F)
Melting Point	421-428	392-446
Comment	PASS	--

Sample description :  
1. Transparent plastic (film)

Note :  
1. F = Degree Fahrenheit  
2. The test items was performed by SGS Hong Kong Ltd.

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**TEST RESULTS**

c) Solubility

Method : With reference to 21 CFR.177.1500. Sample preparation in boiling 4.2N hydrochloric acid (HCl).

Test Item	Result (1)	Requirement
Solubility	Dissolves in 1 hour	Dissolves in 1 hour
Comment	PASS	--

Sample description :

1. Transparent plastic (film)

Note : The test items was performed by SGS Hong Kong Ltd.

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**TEST RESULTS**

d) Extractable Fraction

Method : With reference to 21 CFR.177.1500. Sample preparation at reflux temperature for 8 hours.

Extractants	Result (1) (% w/w)	Reporting Limit	Permissible Limit (% w/w)
Water	0.9	0.1	1.0
95% Ethyl alcohol	1.0	0.1	2.0
Ethyl acetate	0.09	0.05	1.0
Benzene	0.06	0.05	1.0
Comment	PASS	--	--

Sample description :

1. Transparent plastic (film)

Note :

1. % w/w = Percentage of weight by weight
2. The test items was performed by SGS Hong Kong Ltd.

Remark:

1. When statement of conformity is made, unless inherent in the requested specification or instructed by the applicant, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, w = U95) in ILAC-G8:09/2019 Clause 4.2.3.

“Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band.” or “Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.”

“Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band.” or “Fail - One or more measured values were observed out of tolerance at the points tested”. The specific false reject risk is up to 2.5%.

“Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%.”

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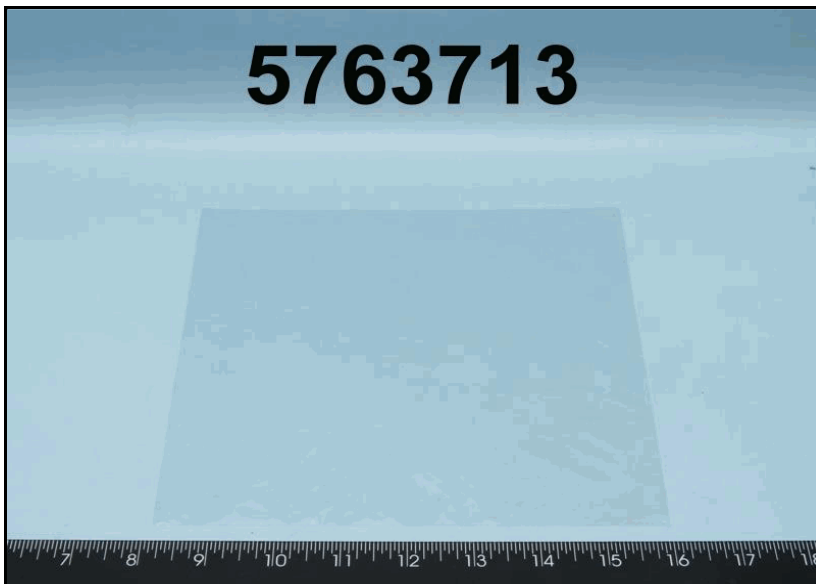
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SAMPLE/ATTACHMENT PICTURE



\*\*\*\*\* End of Report \*\*\*\*\*

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