

Member of the SGS Group

Test Report No.

Date: June 15, 2020

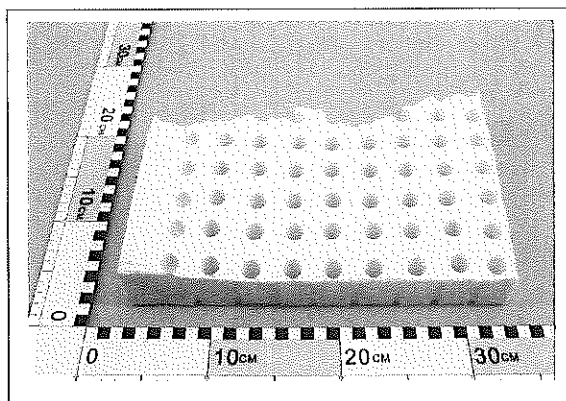
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Quantitative Analysis of Natural Latex	FTIR, PGC-MS, EDX, TGA and reference to ASTM D5712-15	See result	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.

Original Sample Photo:



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Test Item: Quantitative Analysis of Natural Latex

Sample Description: Foam

Test Method:

- (1) Fourier Transform Infrared Spectrometer (FTIR)
Pyrolysis-Gas Chromatography Mass Spectrometry (PGC-MS)
Energy dispersive X-ray fluorescence spectrometer (EDX)
Thermogravimetric Analyzer (TGA)
- (2) Determination of aqueous extractable protein: With reference to ASTM D5712-15, analysis was performed by Ultraviolet and Visible Spectrophotometer(UV-VIS).

Test Result:

No.	Composition	Content, Wt%
1	Natural latex	93
2	Zinc diethyl dithiocarbamate	2
3	Benzothiazole vulcanizing accelerator	
4	Sulfur-containing vulcanizing agent	2
5	Silicate	3
6	Zinc oxide	

Note:

1. Wt% - weight percent.
2. Natural latex contains 2% of fatty acid ester, fatty acid and amides additives.
3. In order to remove disturbance, specimen was treated by soxhlet extraction before natural latex identification.
4. Quantitative data is for reference only.

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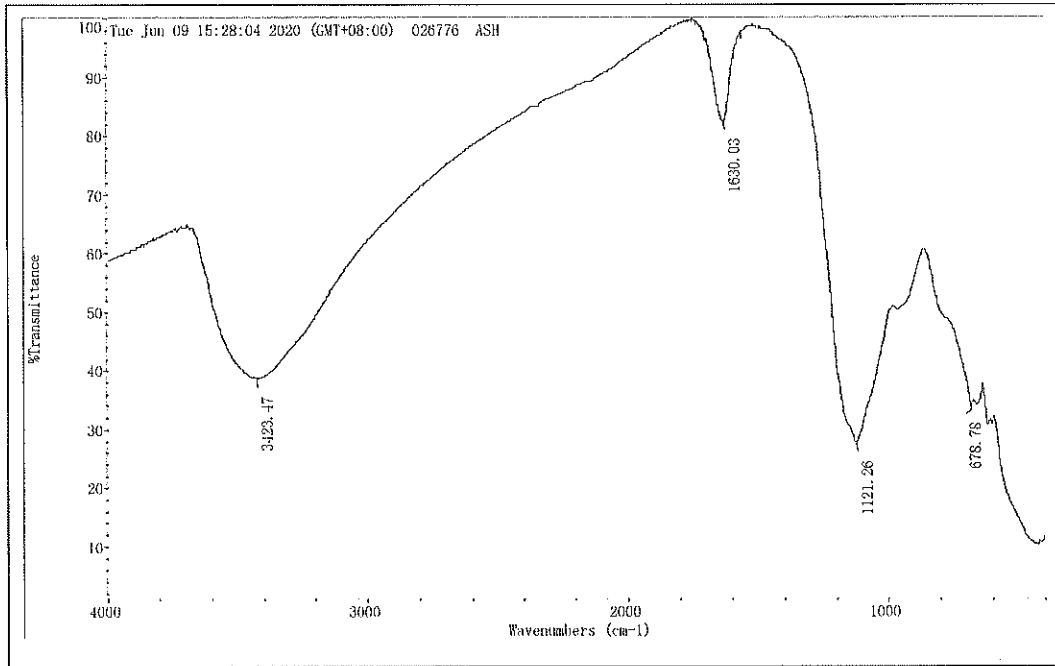
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Fig.2: FTIR spectrum of calcination residue



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
FTIR	NICOLET 5700	GZMR-PL-E028	2019-08-15	2020-08-14
FTIR	NICOLET IS50	GZMR-PL-E216	2020-04-01	2021-03-31
PGC-MS	Shimadzu GCMS-QP2010	Chem-019-P	2019-04-03	2021-04-02
EDX	ARL QUANT'X	GZMR-PL-E306	2020-04-30	2021-04-29
TGA	TA Q550	GZMR-PL-E299	2019-09-02	2020-09-01
Ultra-Violet Spectrophotometer	UV5	GZMR-PL-E298	2019-08-15	2020-08-14

- The test was carried out by other SGS laboratory.

Note: The captioned test is conducted by SGS-CSTC Standards Technical Services Co., Ltd Ningbo Branch.
Test report number:

*****End of report*****

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