

Japan Credit Rating Agency, Ltd. (JCR) announces the following credit rating.

TOYOBO CO., LTD. (security code: 3101)

<Affirmation>

Long-term Issuer Rating:	A
Outlook:	Stable
Bonds:	A
Subordinated Loan:	BBB+
CP:	J-1

Rationale

- (1) TOYOBO CO., LTD. (the “Company”) is a high-function product manufacturer operating such segments as: Films and Functional Materials; Mobility; Lifestyle and Environmental; and Life Science. While it engages in diverse businesses by leveraging technologies nurtured in once the core textile business, its earnings in recent years mainly come from industrial films such as polarizer protective films for LCDs and release films for ceramic condensers. As part of the growth strategy for the environment and functional materials business, the Company will spin off part of its operations to establish a joint venture with Mitsubishi Corporation and aims to achieve further growth in the global market by combining its own technological strengths with the latter’s comprehensive strengths. The new company is scheduled to start operating in April 2023.
- (2) The Company is being affected by a decline in demand for industrial films and surge in raw material and fuel prices. As downward pressure on its performance is growing, overall results may remain weak for the time being. That said, the Company maintains a high level of product competitiveness and good customer base, and thus its performance is assumed to improve as demand picks up. On the financial front, even though aggressive capital investments continue, they are not likely to impair the financial base, leaving some leeway to keep monitoring business recovery for a while. Based on the above, JCR affirmed the ratings on the Company and retained the Stable outlook.
- (3) The Company expects operating income to plunge 61.3% over the year to 11 billion yen in the fiscal year ending March 2023, as per the downward revision from 17 billion yen announced along with the third quarter results. As factors behind this, sales volume has been low for polarizer protective films for LCDs and release films for ceramic condensers, while prices of raw materials, fuels, etc. have been remaining chronically high. Meanwhile in recent years, the Company has aggressively enhanced production capacity for industrial films in line with growth in the IT and mobility (electric motorization and electrification of vehicles) markets. JCR will closely watch whether the Company can quickly get its performance back on the growth path by steadily absorbing such growth in demand while also revising selling prices.
- (4) Financial indicators remain sound and steady, as shown by the equity ratio (with the equity content of hybrid financing considered; hereinafter the same) of 40.1% and net D/E ratio of 0.8x as of December 31, 2022, as opposed to 39.8% and 0.7x at March 31, 2022. The Company plans to strengthen the biochemicals plant and so forth while continuing security-, disaster prevention- and environment-related investments and the enhancement of production capacity for industrial films, which suggests that capital spending will keep expanding for a while. Consequently, interest-bearing debt is expected to increase, but at the same time equity capital is also projected to expand with profit accumulation; therefore, the financial structure will probably weaken only to a limited extent. As regards the subordinated loan, the Company satisfies special exemptions for replacement and may make an early repayment with a means other than the issuance of replacement securities. That said, given solid cash flow generation capacity and current financial conditions, JCR assumes that the ratings will not be negatively affected even in such an event.

Takeshi Fujita, Mai Kanai

Rating

Issuer: TOYOBO CO., LTD.

<Affirmation>

Long-term Issuer Rating: A

Outlook: Stable

Issue	Amount (bn)	Issue Date	Due Date	Coupon	Rating
Bonds no. 39	JPY 10	Sept. 14, 2016	Sept. 14, 2023	0.31%	A
Bonds no. 40	JPY 10	Aug. 30, 2018	Aug. 29, 2025	0.290%	A
Bonds no. 41	JPY 15	June 20, 2019	June 20, 2024	0.180%	A
Bonds no. 42	JPY 10	Dec. 12, 2019	Dec. 11, 2026	0.230%	A
Bonds no. 43 (social bonds)	JPY 10	Dec. 7, 2021	Dec. 7, 2028	0.250%	A

Issue	Amount (bn)	Execution Date	Repayment Date	Interest Rate	Rating
Subordinated Loan	JPY 15	Mar. 26, 2018	Mar. 28, 2078	(Note)	BBB+

Note: Base rate + spread at time of determination of conditions ("initial spread") for the interest periods from the Execution Date to the interest payment date after a lapse of 5 years. Base rate + initial spread + 1.00% step-up interest rate for the interest periods beginning on or after said interest payment date.

CP: J-1

Maximum Amount: JPY 35 billion

Rating Assignment Date: February 15, 2023

The assumptions for the credit ratings and the definitions of the rating symbols are published as "Types of Credit Ratings and Definitions of Rating Symbols" (January 6, 2014) in Information about JCR Ratings on JCR's website (<https://www.jcr.co.jp/en/>).

Outline of the rating methodology is shown as "JCR's Rating Methodology" (November 7, 2014), "Chemicals" (June 15, 2022) and "Ratings of Hybrid Securities (September 10, 2012) in Information about JCR Ratings on JCR's website (<https://www.jcr.co.jp/en/>).

The rating stakeholder participated in the rating process of the aforementioned credit ratings.

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JCR publishes its press releases regarding the rating actions both in Japanese and in English on the same day. In case that it takes time to translate rating rationale, JCR may publicize the summary version, which will be replaced by the full translated version within three business days. (Regarding Structured Finance products, JCR only publicize the summary version in English.)



INFORMATION DISCLOSURE FORM

Japan Credit Rating Agency, Ltd.

Disclosure Required by Paragraph (a)(1)(ii) of Rule 17g-7

Issuer:	TOYOBO CO., LTD.
Rating Publication Date:	February 20,2023

1 The Symbol, Number, or Score in the Rating Scale used to Denote Credit Rating Categories and Notches and, the Identity of the Obligor or the Identity and a Description of the Security or Money Market Instrument as Required by Paragraph (a)(1)(ii)(A) of Rule 17g-7

- Please see the news release. If the credit rating is a private rating, please see the report for private rating.

2 The version of the procedure or methodology used to determine the credit rating; as Required by Paragraph (a)(1)(ii)(B) of Rule 17g-7

- Please see the news release. If the credit rating is a private rating, please see the report for private rating.

3 The Main Assumptions and Principles used in Constructing the Procedures and Methodologies used to Determine the Credit Rating as Required by Paragraph (a)(1)(ii)(C) of Rule 17g-7

- The credit rating methodology assumes, in principle, to be applied to assess the likelihood of a given debt payment in light of its issuer's condition and business environment, etc. in the relevant future. There is certain limitation, however, in the time horizon that the rating foresees.
- The credit rating methodology assumes, in principle, that the factors posted in the below are particularly important for such likelihood to be determined, and that the rating determination is made by evaluating each of them not only quantitatively but also employing qualitative analyses.

A) Business Bases

The likelihood of a given debt payment is highly conditional to its issuer's business bases - how they can be maintained/ expanded into the future and thereby secure earnings and cash flows in adequacy and in a sustainable way.

B) Financial Grounds and Asset Quality

The likelihood of debt payment is highly dependent on the degree of the issuer's indebtedness and loss absorption capacity in terms of equity capital. Also notable is that a financial institution might see a significant loss of financial grounds as a result of changes in value of the assets under its possession.

C) Liquidity Positions

The likelihood of debt payment is highly dependent on the adequacy of the issuer's cash and other sources of repayment (liquidity positions).

D) Related Parties' Status and Stance of Support/ Assistance for the Issuer

The likelihood of debt payment is affected one way or the other by the issuer's related parties such as parent company, subsidiary, guarantor, and the government of the issuer's business domicile, etc. - by their own conditions and/ or position of support/ assistance for the issuer.

E) Order of Seniority in Debt Payment

The likelihood of debt payment can be different between given debts of the same issuer. The likelihood of debt payment for an individual debt is dependent on the issuer's discretion, and/ or its rank relative to other debts of the same issuer in the order of seniority in principal/ interest payment which is determined by design as financial product or by laws, etc.

4 The Potential Limitations of the Credit Rating as Required by Paragraph (a)(1)(ii)(D) of Rule 17g-7

- The credit rating herewith presented by JCR is its summary opinion with regard to the likelihood of given debt payment and hence not necessarily a perfect representation of such likelihood. The credit rating is not intended to estimate the probability of default or the loss on given default, either.
- The objective of the credit rating herewith presented does not include any concerns other than the likelihood of debt payment, such as risks of price changes, market liquidity, etc.
- The credit rating herewith presented is necessary to be reviewed along with possible changes of the issuer of rated objects in its business performance and/ or circumstances which include regulatory environment, and hence subject to possible alteration.

5 Information on the Uncertainty of the Credit Rating as Required by Paragraph (a)(1)(ii)(E) of Rule 17g-7

- The information used for the determination of credit rating as herewith presented is obtained by JCR from the issuer of rated objects and other sources that JCR trusts in terms of accuracy and reliability but possibly contains errors due to human, non-human or other causes. Consequently, the credit rating determined on the grounds of such information does not constitute, explicitly or implicitly, any representation or warrant of JCR on the information itself or any consequences of its use in terms of accuracy, relevance, timeliness, wholeness, market value, or usefulness for any specific purposes.

6 Use of Due Diligence Services of a Third Party in Taking the Rating Action as Required by Paragraph (a)(1)(ii)(F) of Rule 17g-7

- There is no use of any third-party due diligence service in the determination of the credit rating herewith presented.

7 Use of Servicer or Remittance Reports to Conduct Surveillance of the Credit Rating Required by Paragraph (a)(1)(ii)(G) of Rule 17g-7

- There is no use of any servicer or remittance report to conduct surveillance of the credit rating herewith presented.

8 The Types of Data Relied Upon for the Purpose of Determining the Credit Rating as Required by Paragraph (a)(1)(ii)(H) of Rule 17g-7

- The information posted in the below, which includes data, is used for the determination of the credit rating herewith presented.

A) Audited financial statements presented by the rating stakeholders

B) Explanations of business performance, management plans, etc. presented by the rating stakeholders

9 Overall assessment of the Quality of Information Available and Considered in Determining the Credit Rating as Required by Paragraph (a)(1)(ii)(I) of Rule 17g-7

- JCR holds its basic policies for securing the quality of information as a base of due diligence for the determination of credit ratings. The information used as a base for the determination of credit rating herewith presented satisfies such policies, which include the audit by an independent auditor, the warranty made by the issuer, the publication by the issuer, some independent media or, otherwise, JCR analyst's scrutiny, etc.
- JCR sees no particular weakness in the quality of information used for the determination of the credit rating herewith presented as compared to the information used in other cases of the credit rating for comparable issuers or ratable objects.
- If the credit rating is an Indication, please see the report for Indication.

10 Information Relating to Conflicts of Interest as Required by Paragraph (a)(1)(ii)(J) of Rule 17g-7

- JCR receives payment of compensation for the determination of the credit rating herewith presented from either one of those parties who are issuer, underwriter, depositor or sponsor.
- JCR did not receive in the last fiscal year in the past payment of compensation from the same party for any kind of JCR's service other than the determination of public or private credit rating, such as one in the ancillary business.

11 Explanation or Measure of the Potential Volatility of the Credit Rating as Required by Paragraph (a)(1)(ii)(K) of Rule 17g-7

A) Business Bases

The credit rating is subject to alteration if there is improvement or deterioration of the issuer's business bases, since its revenue, etc. may improve or deteriorate by the change in its business management policies, clients' preferences, competitive situation, or a technological innovation. The resultant alteration of the credit rating is usually by a notch, with possibility of a few notches if and when the change in the business bases is large.

B) Financial Grounds and Asset Quality

The credit rating is subject to alteration if the issuer increases/ decreases its debt/ capital or vice versa and thereby makes its individual debt payment liability less or more bearable and its loss absorption capacity into the future decreased or increased. Also, the changes in the quality of asset under the issuer's holding may affect the credit rating, since such changes could raise or lower the likelihood of future loss of the issuer's financial grounds. The resultant alteration of the credit rating is usually by a notch, with possibility of a few notches if and when the change in the financial grounds and/ or asset quality is large.

C) Liquidity Positions

The credit rating is subject to alteration if there is a change in the issuer's financial management policy or in the relations with fund procurement sources and the change thereby makes its liquidity positions improve or deteriorate. The resultant alteration of the credit rating is usually by a notch, with possibility of a few notches if and when the change is large.

D) Related Parties' Status and Stance of Support/ Assistance for the Issuer

The credit rating is subject to alteration if there is a change in the issuer's parent company or subsidiary, guarantor or other provider of credit enhancement, or the government of the issuer's business domicile, or other related parties' own conditions and/ or position of support/ assistance for the issuer, and the change thereby makes its business bases, financial grounds and/ or liquidity positions improve or deteriorate, and/ or making the effectiveness of guarantee and other credit enhancement improve or deteriorate. The resultant alteration of the credit rating is usually a notch, with possibility of a few notches if and when the change is large.

E) Order of Seniority in Debt Payment and Non-Payment Forgiven by Contract

The credit rating is subject to alteration if there is a change in the rated debt's status in the order of seniority relative to other debts caused by the improvement/ deterioration of the issuer's financial condition. The resultant alteration of the credit rating is usually a notch, with possibility of a few notches if and when the change is large. Also, in case of the financial products for which non-payment of interest/ principal is contractually permissible, the credit rating is subject to alteration if and when the likelihood of such non-payment is projected to increase or decrease. The resultant alteration of the credit rating could be by a notch but often as much as a few notches.

F) Rise and Fall in General Economy and Markets

The credit rating is subject to alteration if there is a rise/ fall in the general economy and/ or the markets inducing the issuer's revenues/ expenses to increase/ decrease and vice versa, etc. The resultant alteration of the credit rating is usually by a notch, with possibility of a few notches if and when the change is exceptionally large.

G) Various Events

The credit rating is subject to alteration on occurrence of various events, such as change in the issuer's major shareholders, M&A and other organizational change, accident, violation of the law, litigation, legal/ regulatory change, natural disaster, etc., which are unforeseeable at the time when the credit rating is determined, causing a significant change on the issuer's business bases, financial grounds, etc. The resultant alteration of the credit rating could be by a notch but more often than not as much as a few notches.

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Information on the Content of the Credit Rating, Including the Historical Performance of the Credit Rating and the Expected Probability of Default and the Expected Loss in the Event of Default as Required by Paragraph (a)(1)(ii)(L) of Rule 17g-7

- Historical records of the credit rating herewith presented are posted in the end of this paper.
- The credit rating herewith presented by JCR is its summary opinion with regard to the likelihood of given debt payment and hence not necessarily a perfect representation of such likelihood. The credit rating is not intended to estimate the probability of default or the loss on given default, either.
- Facts of the probability of default are posted as Form NRSRO Exhibit 1 on the JCR website under the URL:

<https://www.jcr.co.jp/en/service/company/regu/nrsro/>

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Information on the Sensitivity of the Credit Rating to Assumptions Made as Required by Paragraph (a)(1)(ii)(M) of Rule 17g-7

A) Business Bases

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the issuer's business bases and powers of earning or cash flow generation, etc. The resultant change of the credit rating is most likely by a notch, as JCR speculates, but possibly as much as a few notches if the development is rapid in improvement or deterioration of the issuer's business bases on some drastic change in the operational environments, etc.

B) Financial Grounds and Asset Quality

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the issuer's financial grounds and asset

quality. The resultant change of the credit rating is most likely by a notch, as JCR speculates, but possibly as much as a few notches if the development is rapid in improvement or deterioration of the issuer's financial grounds and/ or asset quality on some drastic change in its business bases.

C) Liquidity Risks

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the issuer's liquidity positions. The resultant change of the credit rating is most likely by a notch, as JCR speculates, but possibly as much as a few notches if the development is rapid in improvement or deterioration of the issuer's liquidity positions on some drastic change in its financial management policy or relations with fund procurement sources, etc.

D) Order of Seniority in Debt Payment and Non-Payment Forgiven by Contract

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the order of seniority in repayment of interests and principal. JCR assumes the resultant change of the credit rating is most likely by a notch. The change could be as much as a few notches if the issuer's financial structure differs so much and thereby the balance between debts shifted so greatly. Rating change is also possible in case of the financial products for which non-payment of interest/ principal is contractually permissible, if and when the assumptions made at the time of its determination turns out to be inaccurate. The change of the credit rating is assumed to be by a notch but often as much as a few notches.

E) Rise and Fall in General Economy and Markets

The credit rating herewith presented could be changed if and when the assumptions made at the time of its determination turn out to be inaccurate with regard to the prospects of general economy and markets. JCR expects the change should be most likely by a notch but could be as much as a few notches, should the economy or the markets change so greatly.

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Information on the Representations, Warranties, and Enforcement Mechanisms of an Asset-backed Security as Required by Paragraph (a)(1)(ii)(N) of rule 17g-7

- The credit rating herewith presented is not for an ABS product, and hence no relevant issue.

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The Historical Performance of the Credit Rating

Issuer Name	Issue Name	Publication Date	Rating	Outlook/Direction
TOYOBO CO., LTD.	Issuer(Long-term)	January 26, 2007	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	January 30, 2008	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	February 6, 2009	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	February 5, 2010	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	March 8, 2011	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	January 24, 2012	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	November 29, 2012	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	January 24, 2014	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	December 5, 2014	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	February 17, 2016	A-	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	January 24, 2017	A-	Positive
TOYOBO CO., LTD.	Issuer(Long-term)	December 28, 2017	A	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	February 19, 2019	A	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	February 26, 2020	A	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	February 22, 2021	A	Stable
TOYOBO CO., LTD.	Issuer(Long-term)	February 24, 2022	A	Stable
TOYOBO CO., LTD.	CP	April 10, 1989	J-1	
TOYOBO CO., LTD.	CP	April 23, 1990	J-1	
TOYOBO CO., LTD.	CP	August 19, 1998	J-1	
TOYOBO CO., LTD.	CP	October 15, 1999	J-1	
TOYOBO CO., LTD.	CP	October 4, 2000	J-1	
TOYOBO CO., LTD.	CP	October 31, 2001	J-1	
TOYOBO CO., LTD.	CP	February 24, 2003	J-1	
TOYOBO CO., LTD.	CP	October 19, 2004	J-1	
TOYOBO CO., LTD.	CP	October 26, 2005	J-1	
TOYOBO CO., LTD.	CP	January 26, 2007	J-1	
TOYOBO CO., LTD.	CP	January 30, 2008	J-1	
TOYOBO CO., LTD.	CP	February 6, 2009	J-1	
TOYOBO CO., LTD.	CP	February 5, 2010	J-1	
TOYOBO CO., LTD.	CP	March 8, 2011	J-1	
TOYOBO CO., LTD.	CP	January 24, 2012	J-1	
TOYOBO CO., LTD.	CP	November 29, 2012	J-1	
TOYOBO CO., LTD.	CP	January 24, 2014	J-1	
TOYOBO CO., LTD.	CP	December 5, 2014	J-1	
TOYOBO CO., LTD.	CP	February 17, 2016	J-1	
TOYOBO CO., LTD.	CP	January 24, 2017	J-1	
TOYOBO CO., LTD.	CP	December 28, 2017	J-1	
TOYOBO CO., LTD.	CP	February 19, 2019	J-1	
TOYOBO CO., LTD.	CP	February 26, 2020	J-1	
TOYOBO CO., LTD.	CP	February 22, 2021	J-1	
TOYOBO CO., LTD.	CP	February 24, 2022	J-1	
TOYOBO CO., LTD.	Bonds no.39	September 8, 2016	A-	
TOYOBO CO., LTD.	Bonds no.39	January 24, 2017	A-	
TOYOBO CO., LTD.	Bonds no.39	December 28, 2017	A	
TOYOBO CO., LTD.	Bonds no.39	February 19, 2019	A	
TOYOBO CO., LTD.	Bonds no.39	February 26, 2020	A	
TOYOBO CO., LTD.	Bonds no.39	February 22, 2021	A	
TOYOBO CO., LTD.	Bonds no.39	February 24, 2022	A	
TOYOBO CO., LTD.	Bonds no.40	August 24, 2018	A	
TOYOBO CO., LTD.	Bonds no.40	February 19, 2019	A	
TOYOBO CO., LTD.	Bonds no.40	February 26, 2020	A	
TOYOBO CO., LTD.	Bonds no.40	February 22, 2021	A	
TOYOBO CO., LTD.	Bonds no.40	February 24, 2022	A	
TOYOBO CO., LTD.	Bonds no.41	June 14, 2019	A	
TOYOBO CO., LTD.	Bonds no.41	February 26, 2020	A	
TOYOBO CO., LTD.	Bonds no.41	February 22, 2021	A	
TOYOBO CO., LTD.	Bonds no.41	February 24, 2022	A	
TOYOBO CO., LTD.	Bonds no.42	December 6, 2019	A	
TOYOBO CO., LTD.	Bonds no.42	February 26, 2020	A	
TOYOBO CO., LTD.	Bonds no.42	February 22, 2021	A	
TOYOBO CO., LTD.	Bonds no.42	February 24, 2022	A	
TOYOBO CO., LTD.	Bonds no.43	December 1, 2021	A	

The Historical Performance of the Credit Rating

Issuer Name	Issue Name	Publication Date	Rating	Outlook/Direction
TOYOBO CO., LTD.	Bonds no.43	February 24, 2022	A	
TOYOBO CO., LTD.	Loan(subordinated)	March 20, 2018	BBB+	
TOYOBO CO., LTD.	Loan(subordinated)	February 19, 2019	BBB+	
TOYOBO CO., LTD.	Loan(subordinated)	February 26, 2020	BBB+	
TOYOBO CO., LTD.	Loan(subordinated)	February 22, 2021	BBB+	
TOYOBO CO., LTD.	Loan(subordinated)	February 24, 2022	BBB+	

Attestation Required by Paragraph (a)(1)(iii) of Rule 17g-7

I, Mikiya Kubota, have responsibility to this Rating Action and to the best of my knowledge:

- A) No part of the credit rating was influenced by any other business activities.
- B) The credit rating was based solely upon the merits of the obligor, security, or money market instrument being rated.
- C) The credit rating was an independent evaluation of the credit risk of the obligor, security, or money market instrument.

窪田 幹也

Mikiya Kubota

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