

TRUE COPY

TO ALL TO WHOM THESE PRESENTS SHALL COME,

I Do Hereby Certify that the annexed document(s) are TRUE COPIES of the original document(s) which I have compared. The original document(s) contains the authentic signature(s) from the inventor(s).

at Midland, Michigan 48674, USA
this 5 day of March 20 24



Chance Owen
Administrative Professional
THE DOW CHEMICAL COMPANY

NOTARIAL CERTIFICATE

UNITED STATES OF AMERICA)
STATE OF **MICHIGAN**) SS
County/Parish of **Midland**)

On this 5th day of March 2024, personally
appeared before me,

Chance Owen

known or identified to me to be the individual who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.


Notary Public

SEAL

ABBY DAVIS
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF Saginaw
My Commission Expires September 27, 2026
Acting in the County of MiOcan



ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

hereby accept the ASSIGNMENT which is dated: January 10, 2022

From, the ASSIGNOR:

DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED
Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203 Shanghai
China

of the invention entitled:

**LAMINATE WITH SUPERIOR BARRIER PERFORMANCE AND PREPARATION
METHOD THEREOF**

without any restrictions and with all rights and obligations deriving therefrom and declare that this
confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA

this 14th day of January, 20 22

CORP.
SEAL

DOW GLOBAL TECHNOLOGIES LLC

By:


JOHN B. TREANGEN
Authorized Representative

ASSIGNMENT

(with Priority Rights)

and

INVENTORSHIP DECLARATION

We, ASSIGNOR, of: **DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED**
Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203 Shanghai
China

an entity organized and existing under the laws of **CHINA** do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

Chenyan Bai, at No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Gang Wang, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Zhe Du, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Xiaobing Yun, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Jianping Pan, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Jingyi Xu, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Kaili Wang, at No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; and Lianjiang Zhao, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China

by an Assignment dated: December 6, 2021; December 6, 2021; December 6, 2021; December 10, 2021; December 6, 2021; December 6, 2021; December 6, 2021; and December 6, 2021; respectively of an invention relating to and entitled:

LAMINATE WITH SUPERIOR BARRIER PERFORMANCE AND PREPARATION METHOD THEREOF

We do hereby declare, for good and valuable consideration, received, sell, assign, and transfer unto:

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

an entity organized and existing under the laws of the State of Delaware, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
PCT/CN2021/129194	November 8, 2021	International

of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee, and we do hereby authorize said Assignee to insert here the corresponding Application Number, Filing Date, and Filing Country

Application Number	Filing Date	Filing Country

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Sworn by us at Shanghai, China

this 10th day of January, 20 22

DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED

CORP.
SEAL

By: Ximing Zhang
XIMING (NICK) ZHANG
Authorized Representative

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED**
Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203 Shanghai
China

hereby accept the ASSIGNMENT which is dated: December 6, 2021; December 6, 2021; December 6, 2021; December 10, 2021; December 6, 2021; December 6, 2021; December 6, 2021; and December 6, 2021

From, the ASSIGNORS: Chenyan Bai, at No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Gang Wang, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Zhe Du, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Xiaobing Yun, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Jianping Pan, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Jingyi Xu, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; Kaili Wang, at No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China; and Lianjiang Zhao, at No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China

of the invention entitled:

LAMINATE WITH SUPERIOR BARRIER PERFORMANCE AND PREPARATION METHOD THEREOF

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Shanghai, China

this 10th day of January, 20 22

CORP.
SEAL

DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED

By: Ximing Zhang
XIMING (NICK) ZHANG
 Authorized Representative

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Date
FORM 110 (R 5/97)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **LAMINATE WITH SUPERIOR BARRIER PERFORMANCE AND PREPARATION METHOD THEREOF**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

Dow Chemical (China) Investment Company Limited
Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203 Shanghai
China

an entity organized and existing under the laws of China (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
PCT/CN2021/129194	November 8, 2021	International

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Shanghai, China
this 6 day of Dec, 20 21
Effective as of November 8, 2021

Signature: Bai, Chenyan
Full Name: Chenyan Bai
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
201203 Shanghai
China

At: Shanghai, China
this 6 day of Dec, 20 21
Effective as of November 8, 2021
Signature: [Signature]
Full Name: Gang Wang
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
201203 Shanghai
China

At: Shanghai, China
this 6 day of Dec, 20 21
Effective as of November 8, 2021
Signature: 
Full Name: Zhe Du
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
201203 Shanghai
China

At: _____ Shanghai, China
this _____ day of _____, 20 _____
Effective as of November 8, 2021

Signature: _____
Full Name: Xiaobing Yun
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
201203 Shanghai
China

At: Shanghai, China
this 6 day of Dec, 20 21
Effective as of November 8, 2021

Signature: 
Full Name: Jianping Pan
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
201203 Shanghai
China

At: Shanghai, China
this 6 day of Dec., 20 21
Effective as of November 8, 2021
Signature: [Signature]
Full Name: Jingyi Xu
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
201203 Shanghai
China

(X) Additional names and signatures are attached.

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

an entity organized and existing under the laws of **China** (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recording of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

At: Shanghai, China
this day of , 20
Effective as of November 8, 2021

Signature: _____
Full Name: Jingyi Xu
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
201203 Shanghai
China

(X) Additional names and signatures are attached.

Additional names, addresses and signatures to be attached to Form No. 110 INDIVIDUAL ASSIGNMENT AND INVENTORS DECLARATION

At:	Shanghai, China
this	6 day of Dec, 20 21
Effective as of November 8, 2021	
Signature:	王凯丽
Full Name: Kaili Wang	
Mailing Address: No. 936 Zhangheng Road	
Shanghai Pilot Free Trade Zone	
201203 Shanghai	
China	

At:	Shanghai, China
this	6 day of Dec, 20 21
Effective as of November 8, 2021	
Signature:	赵联江
Full Name: Lianjiang Zhao	
Mailing Address: No. 936 Zhangheng Road	
Shanghai Pilot Free Trade Zone	
201203 Shanghai	
China	

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

hereby accept the ASSIGNMENT which is dated: January 14, 2022
From the ASSIGNOR:

From, the ASSIGNOR:

DOW CHEMICAL JAPAN LIMITED
Tennoz Central Tower
2-24, Higashi Shinagawa 2-chome
Shinagawa-ku
Tokyo
140
Japan

of the invention entitled:

LAMINATE WITH SUPERIOR BARRIER PERFORMANCE AND PREPARATION METHOD THEREOF

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA

this 14th day of January, 20 22

DOW GLOBAL TECHNOLOGIES LLC

CORP.
SEAL

By: John B. Treangen
JOHN B. TREANGEN
Authorized Representative

We, ASSIGNOR, of: **DOW CHEMICAL JAPAN LIMITED**
Tennoz Central Tower
2-24, Higashi Shinagawa 2-chome
Shinagawa-ku
Tokyo
140
Japan

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

an entity organized and existing under the laws of the State of Delaware, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
PCT/CN2021/129194	November 8, 2021	International

of the application on which the priority will be based, and in and to any Letters Patent that may be issued for said invention in any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and we do hereby authorize said Assignee to insert here the corresponding Application Number, Filing Date, and Filing Country

Application Number	Filing Date	Filing Country

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Sworn by us at Midland, Michigan 48674, USA

this 14th day of January, 20 22

DOW CHEMICAL JAPAN LIMITED

By: Darryl P. Frickey
DARRYL P. FRICKEY
Authorized Representative

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **DOW CHEMICAL JAPAN LIMITED**
Tennoz Central Tower
2-24, Higashi Shinagawa 2-chome
Shinagawa-ku
Tokyo
140
Japan

hereby accept the ASSIGNMENT which is dated: November 30, 2021

From, the ASSIGNOR: Fanji Wang, at 2-24, Higashi Shinagawa 2-chome, Shinagawa-ku, Tokyo,
140-8617, Japan

of the invention entitled:

LAMINATE WITH SUPERIOR BARRIER PERFORMANCE AND PREPARATION METHOD THEREOF

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA
this 14th day of January, 20 22

CORP.
SEAL

DOW CHEMICAL JAPAN LIMITED

By: Darryl P. Frickey
DARRYL P. FRICKEY
Authorized Representative

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **ROHM AND HAAS COMPANY**
400 Arcola Road
Collegeville, Pennsylvania 19426
United States of America

hereby accept the ASSIGNMENT which is dated: December 6, 2021

From, the ASSIGNOR: Gaobing Chen, at No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, 201203 Shanghai, China

of the invention entitled:

LAMINATE WITH SUPERIOR BARRIER PERFORMANCE AND PREPARATION METHOD THEREOF

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA

this 14th day of January, 20 22

CORP.
SEAL

ROHM AND HAAS COMPANY

By:

JOHN B. TREANGEN
Assistant Secretary

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R. Date
FORM 110 (R 5 97)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **LAMINATE WITH SUPERIOR BARRIER PERFORMANCE AND PREPARATION METHOD THEREOF**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

Rohm and Haas Company
400 Arcola Road
Collegeville, Pennsylvania 19426
United States of America

an entity organized and existing under the laws of the state of **Delaware** (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
PCT/CN2021/129194	November 8, 2021	International

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Shanghai, China
this 6th day of December, 20 21
Effective as of November 8, 2021
Signature: Chen, Gaobing
Full Name: Gaobing Chen
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
201203 Shanghai
China

At: _____
this _____ day of _____, 20 _____

Signature: _____

Full Name: _____

Mailing Address: _____

At: _____
this _____ day of _____, 20 _____
Signature: _____
Full Name: _____
Mailing Address: _____

At: _____
this _____ day of _____, 20 _____
Signature: _____
Full Name: _____
Mailing Address: _____