

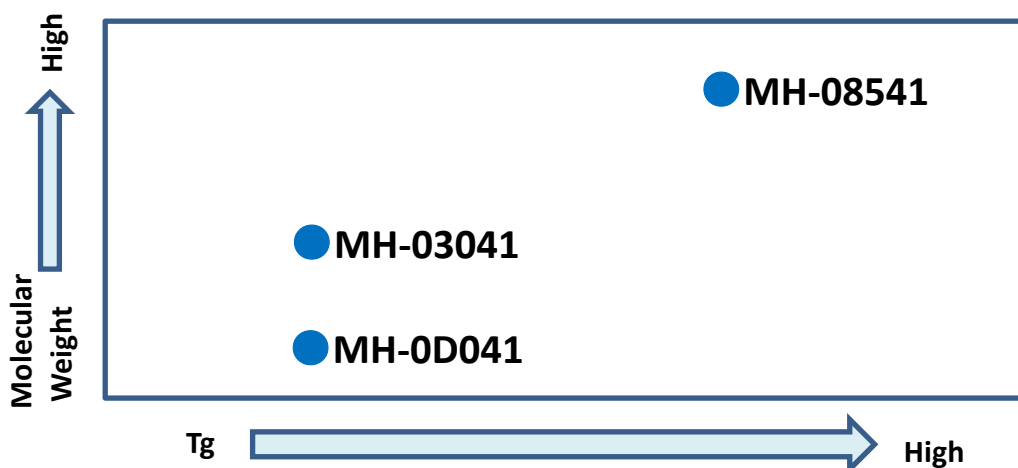
Acrylic binders for sintering MARPROOF™ MH Series

Characteristics

- Has excellent thermal decomposition properties and enables residue reduction after sintering
- Has excellent handling properties due to the beaded powder
- Does not contain metal or other impurities

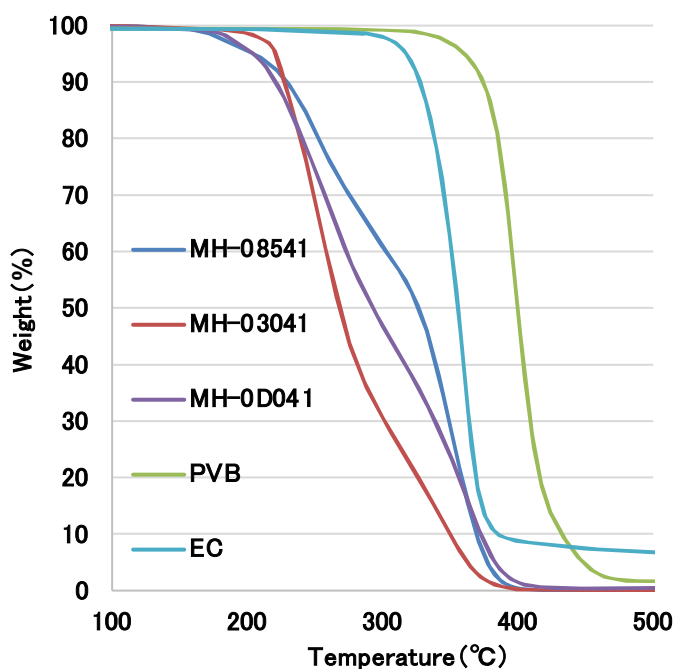
Lineup

Product name	MARPROOF®		
	MH-08541	MH-03041	MH-0D041
Weight-average molecular weight	800,000	300,000	60,000
Tg (°C)	70	50	50
Functional Group	Hydroxyl Group	Hydroxyl Group	Hydroxyl Group
Characteristics	High Strength	Alcohol-soluble	Alcohol-soluble

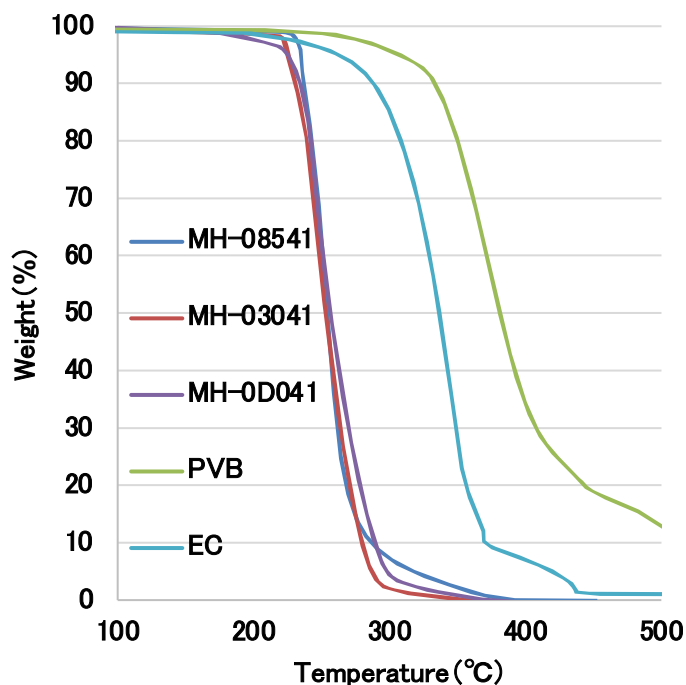


Thermal decomposability

● In a nitrogen atmosphere



● In air

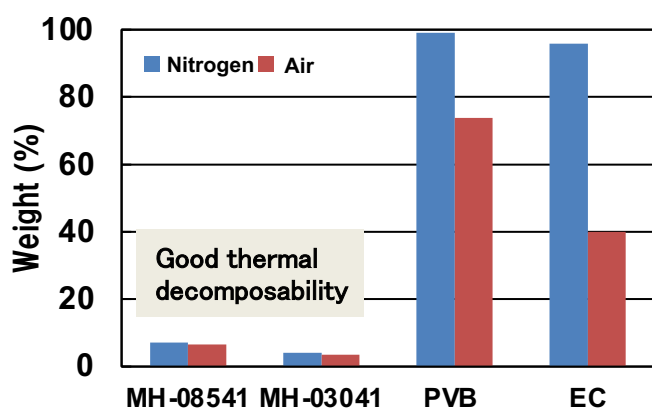


PVB: Polyvinyl butyral, EC: Ethyl cellulose, Rate of temperature rise: 10°C/min

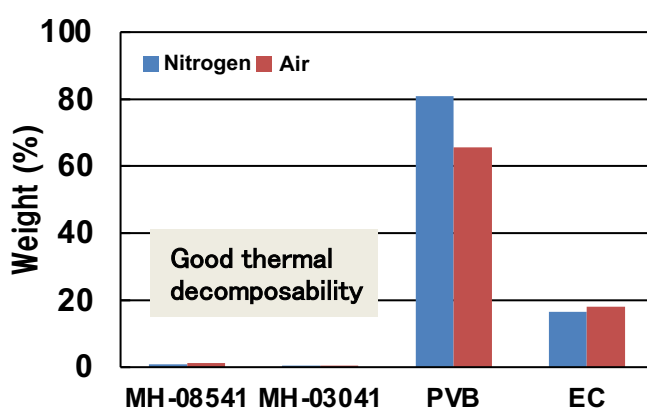
Demonstrates good heat dispersion properties even at low temperatures of 450°C or below.

Low temperature decomposability

● 250°C, Retention for 2 hours



● 300°C, Retention for 2 hours



Tensile characteristics

	MH-08541	MH-03041	Polyvinyl butyral	Ethyl cellulose
Tensile strength (MPa)	31	26	31	33
Stretching rate (%)	5.5	5.5	4.2	6.7

Solubility

Solvent	Toluene	MEK	Ethanol	IPA	Butyl acetate	Terpineol	BCA
MH-08541	○	○	×	×	×	○	×
MH-03041	○	○	○	○	○	○	○
MH-0D041	○	○	○	○	○	○	○

Solubility for 20 wt% solution preparation ○: soluble, ×: insoluble

When dissolving, we recommend heating the solvent to 40 to 60°C after adding the powder to avoid clumping while stirring the solvent.

Legal and regulatory registration status

	Japan	China	Taiwan	South Korea	USA
MH-08541	○	○	○	—	○
MH-03041	○	—	○	—	—
MH-0D041	○	—	○	—	—

※We provide consultation regarding registration of regulations in each country.

We can provide support from binder customization to match the power and solvent system used. to plasticizer or dispersant selection, so please feel free to contact us with your inquiries.

This catalog was produced based on our best-effort research, but the stated data and evaluation results are not necessarily guaranteed. All chemical substances present unknown hazards, so they must be handled with great care. Establish safe usage conditions based on the responsibility of each user. In addition, for special handling, implement new safety measures suitable for the purpose and usage before use.

*If these or any other points are unclear, please contact one of our sales representatives.

Duplication or reproduction without permission are prohibited. ©2024 NOF CORPORATION