

# Polypropylene for Medical Devices and Pharmaceutical Containers



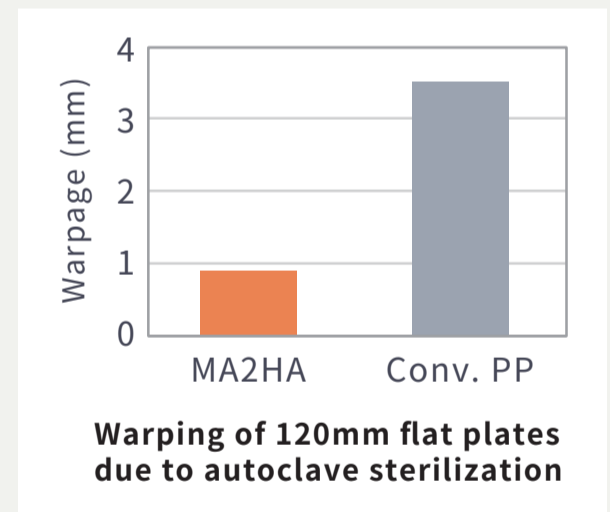
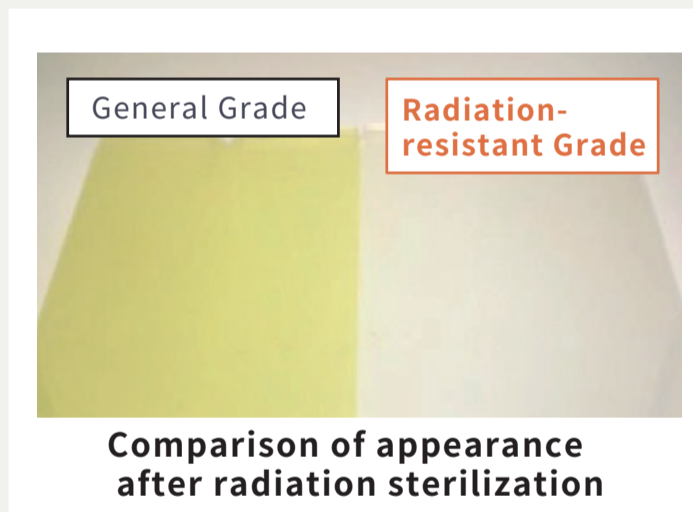
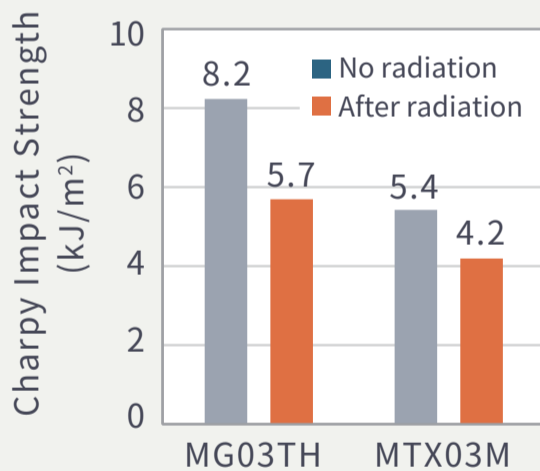
**Use** Medical Devices / Pharmaceutical Containers

**Background**

- In the medical field, there has been a demand for reducing burdens and minimizing the risk of nosocomial infections.
- Polypropylene products for medical use contribute to the provision of safe and lightweight pharmaceuticals and medical devices.

**Feature**

- MG03TH, MTX03M resist radiation sterilization and are suitable for dialyzers.
- MA2HA has heat resistance and is suitable for prefilled syringes.



## Part of Grades for Medical Applications

|   |                   | MA2HA     | MTX03M    | MG03TH    | Developing PP     |
|---|-------------------|-----------|-----------|-----------|-------------------|
| MFR   | g/10min           | 17        | 27        | 30        | under Development |
| Flexural modulus  | MPa               | 2,100     | 1,100     | 850       |                   |
| Charpy Impact Strength                                  | kJ/m <sup>2</sup> | 2.0       | 5.0       | 8.0       |                   |
| HAZE 1mm  | %                 | 20        | 6         | 15        |                   |
| Sterilization   |                   | Autoclave | Radiation | Radiation | Radiation         |
| Japanese Pharmacopoeia (combustion tests, extractables) |                   | ✓         | -         | -         | ✓*                |
| ISO10993  |                   | ✓         | ✓         | -         | -                 |
| DMF Registration  |                   | ✓         | ✓         | ✓         | -                 |

\*The developing PP is planned to be suitable for testing after radiation sterilization.

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