# Technical Data Sheet

## *Pristene* RM5500

Polypropylene, Random Copolymer

### Product Description

*Pristene* RM5500 is a metallocene polypropylene random copolymer with ultra high clarity and gloss, high purity, good stiffness and impact balance and low volatile content. Typical customer applications are baby feed bottles (IBM/ISBM), transparent containers, food containers, cosmetic containers.

### Regulatory Status

For regulatory compliance information, see *Pristene* RM5500 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Developmental |
| **Availability** | Africa-Middle East; Asia-Pacific; Australia and New Zealand |
| **Application** | Clear Containers; Housewares |
| **Market** | Consumer Products; Rigid Packaging |
| **Processing Method** | Injection Blow Molding; Injection Molding; Injection Stretch Blow Molding |
| **Attribute** | High Clarity; High Gloss; Random Copolymer |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 15 | g/10 min | ASTM D1238 |
| Density | 0.90 | g/cm³ | ASTM D792 |
| **Mechanical** | | | |
| Flexural Modulus | 1400 | MPa | ASTM D790 |
| Tensile Strength at Yield | 35 | MPa | ASTM D638 |
| Tensile Elongation at Yield | 10 | % | ASTM D638 |
| **Impact** | | | |
| Notched Izod Impact Strength, (23 °C) | 40 | J/m | ASTM D256 |



Manufacturer website: https://www.lyondellbasell.com/en/

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

© LyondellBasell Industries Holdings, B.V. 2026

## Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

## Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.