



## Moplen RP316M

### Polypropylene, Random Copolymer

#### Product Description

"Moplen" RP316M is a slightly modified propylene random copolymer for manufacturing high transparent cast films. The product contains slip, antiblock and antielectrostatic agents. It offers excellent processability, high clarity and gloss and good heat weldability. Main applications are packaging of foodstuffs, packaging of books and stationary. "Moplen" RP316M is suitable for food contact. For regulatory information please refer to "Moplen" RP316M Product Stewardship Bulletin ( PSB ).

#### Product Characteristics

|                                      |                                                                                                                                     |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Status</b>                        | Commercial: Active                                                                                                                  |
| <b>Test Method used</b>              | ISO ASTM                                                                                                                            |
| <b>Availability</b>                  | Europe, Africa-Middle East                                                                                                          |
| <b>Processing Methods</b>            | Cast Film                                                                                                                           |
| <b>Features</b>                      | Unspecified Antiblocking , Antistatic, High Clarity, Random Copolymer, High Gloss , Good Processability, Unspecified Slip, Weldable |
| <b>Typical Customer Applications</b> | Cast Film, Food Packaging Film, Stationery Film, Textile Packaging Film                                                             |

| Typical Properties        | Method      | Value | Unit |
|---------------------------|-------------|-------|------|
| <b>Mechanical</b>         |             |       |      |
| Tensile Strength @ Brk MD | ASTM D 882  | 40.0  | MPa  |
| Tensile Strength @ Yld MD | ASTM D 882  | 20.0  | MPa  |
| Elongation at break MD    | ASTM D 882  | 730   | %    |
| <b>Optical</b>            |             |       |      |
| Haze (50 µ)               | ASTM D 1003 | <1.5  | %    |
| Gloss (45°, 50 µ)         | ASTM D 2457 | 88    |      |
| <b>Film</b>               |             |       |      |
| Coefficient of Friction   | ASTM D 1894 |       |      |
|                           |             | 0.20  |      |
|                           |             | 0.20  |      |
| Secant modulus MD         | ASTM D 882  | 780   | MPa  |

#### Additional Properties

Typical film properties of laboratory casting line:  
 Gloss 45°, ASTM D 2457, 50 µm: 88  
 Haze, ASTM D 1003, 50 µm: <1.5%  
 Tensile Young modulus, ASTM D 882, 25 mm/min, 50 µm: 780 MPa  
 Stress at Yield, ASTM D 882, 500 mm/min, 50 µm, 20 MPa  
 Elongation at Yield, ASTM D 882, 500 mm/min, 50 µm: 6.3%  
 Stress at break, ASTM D 882, 500 mm/min, 50 µm, 40 MPa  
 Elongation at break, ASTM D 882, 500 mm/min, 50 µm: 730%  
 Coefficient of friction, ASTM D 1894, Static: 0.2  
 Coefficient of friction, ASTM D 1894, Dynamic: 0.2

#### Notes

Typical properties; not to be construed as specifications.

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LyondellBasell markets this product through the following entities:

- Equistar Chemicals, LP
- Basell Sales & Marketing Company B.V.
- Basell Asia Pacific Limited
- Basell International Trading FZE
- LyondellBasell Australia Pty Ltd

For the contact details of the LyondellBasell company selling this product in your country, please visit <http://www.lyb.com/>.

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This product(s) may not be used in:

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- (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or fittings that are considered a part or component of a nuclear reactor.
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All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Material Safety Data Sheet before handling the product.

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