

# Moplen RP241G

Polypropylene Random Copolymer

LyondellBasell Industries

## Message:

LyondellBasell Australia's polypropylene grade RP241G is a low flow random copolymer with a conventional molecular weight distribution and is specially formulated with an additive package that enhances clarity. RP241G is designed for extrusion and blow moulding applications requiring good melt strength, excellent clarity, excellent gloss and good regrind stability. End use products typically made from RP241G include blow-moulded articles, extruded sheet and profiles.

| General Information                       |                                |                   |             |
|---|--------------------------------|-------------------|-------------|
| Additive                                  | Clarifier                      |                   |             |
| Features                                  | Food Contact Acceptable        |                   |             |
|   | Good Melt Strength             |                   |             |
|   | High Clarity                   |                   |             |
|   | High Gloss                     |                   |             |
|   | Low Flow                       |                   |             |
|   | Random Copolymer               |                   |             |
| Uses                                      | Blow Molding Applications      |                   |             |
|   | Profiles                       |                   |             |
|   | Reinforced Panels              |                   |             |
|   | Sheet                          |                   |             |
| Agency Ratings                            | AS 2070-1999                   |                   |             |
|   | FDA 21 CFR 177.1520(a) 3 (i) 2 |                   |             |
|   | FDA 21 CFR 177.1520(c) 3.1a 2  |                   |             |
| Processing Method                         | Blow Molding                   |                   |             |
|   | Extrusion                      |                   |             |
| Physical                                  | Nominal Value                  | Unit              | Test Method |
| Density                                   | 0.900                          | g/cm <sup>3</sup> | ISO 1183/D  |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.5                            | g/10 min          | ISO 1133    |
| Hardness                                  | Nominal Value                  | Unit              | Test Method |
| Shore Hardness (Shore D)                  | 68                             |                   | ISO 868     |
| Mechanical                                | Nominal Value                  | Unit              | Test Method |
| Tensile Stress (Yield)                    | 28.0                           | MPa               | ISO 527-2   |
| Flexural Modulus                          | 1050                           | MPa               | ISO 178     |
| Impact                                    | Nominal Value                  | Unit              | Test Method |
| Notched Izod Impact Strength (23°C)       | 18                             | kJ/m <sup>2</sup> | ISO 180/1A  |

| Falling Dart Impact (23°C)  | 12.0          | J    | BS 2782 306B |
|-----------------------------|---------------|------|--------------|
| Thermal                     | Nominal Value | Unit | Test Method  |
| Heat Deflection Temperature |               |      |              |
| 0.45 MPa, Unannealed        | 68.0          | °C   | ISO 75-2/B   |
| 1.8 MPa, Unannealed         | 48.0          | °C   | ISO 75-2/A   |
| Vicat Softening Temperature | 130           | °C   | ISO 306/A    |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

