

# Moplen RP218R

Polypropylene Random Copolymer

LyondellBasell Industries

## Message:

Moplen RP218R is a polypropylene random copolymer manufactured using the Spheripol process. Potential end use applications include extrusion coating on BOPP film

| General Information                                      |                      |                   |             |
|--|----------------------|-------------------|-------------|
| Features   | Good Adhesion        |                   |             |
|  | Good Heat Seal       |                   |             |
|  | Low Neck-In          |                   |             |
|  | Random Copolymer     |                   |             |
| Uses   | Coating Applications |                   |             |
|  | Film                 |                   |             |
|  | Food Packaging       |                   |             |
|  | Laminates            |                   |             |
| Forms  | Pellets              |                   |             |
| Processing Method  | Extrusion Coating    |                   |             |
|  | Film Extrusion       |                   |             |
| Physical   | Nominal Value        | Unit              | Test Method |
| Specific Gravity   | 0.900                | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                | 19                   | g/10 min          | ASTM D1238  |
| Hardness   | Nominal Value        | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                              | 85                   |                   | ASTM D785   |
| Mechanical   | Nominal Value        | Unit              | Test Method |
| Tensile Strength (Yield)                                 | 24.0                 | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                               | 12                   | %                 | ASTM D638   |
| Flexural Modulus   | 785                  | MPa               | ASTM D790   |
| Impact   | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (23°C)                               | 39                   | J/m               | ASTM D256   |
| Thermal  | Nominal Value        | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 85.0                 | °C                | ASTM D648   |
| Vicat Softening Temperature                              | 125                  | °C                | ASTM D1525  |

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## 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



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