

# Moplen RP1085

Polypropylene Random Copolymer

PolyMirae

Message:

Moplen RP1085 is a high fluidity random copolymer, suitable for injection moulding applications.  
The product is nucleated and contains anti static additive.  
Moplen RP1085 meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 for food contact.

| General Information                       |                         |                   |                      |
|-------------------------------------------|-------------------------|-------------------|----------------------|
| Additive                                  | Antistatic              |                   |                      |
|                                           | Nucleating Agent        |                   |                      |
| Features                                  | Food Contact Acceptable |                   |                      |
|                                           | Good Adhesion           |                   |                      |
|                                           | Good Flexibility        |                   |                      |
|                                           | Good Heat Seal          |                   |                      |
|                                           | Low Neck-In             |                   |                      |
|                                           | Random Copolymer        |                   |                      |
| Uses                                      | Coating Applications    |                   |                      |
|                                           | Film                    |                   |                      |
|                                           | Laminates               |                   |                      |
|                                           | Packaging               |                   |                      |
| Agency Ratings                            | FDA 21 CFR 177.1520     |                   |                      |
| RoHS Compliance                           | Contact Manufacturer    |                   |                      |
| Forms                                     | Pellets                 |                   |                      |
| Processing Method                         | Injection Molding       |                   |                      |
| Physical                                  | Nominal Value           | Unit              | Test Method          |
| Density                                   | 0.900                   | g/cm <sup>3</sup> | ISO 1183, ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 40                      | g/10 min          | ASTM D1238, ISO 1133 |
| Hardness                                  | Nominal Value           | Unit              | Test Method          |
| Rockwell Hardness (R-Scale)               | 90                      |                   | ASTM D785            |
| Mechanical                                | Nominal Value           | Unit              | Test Method          |
| Tensile Strength                          |                         |                   |                      |
| Yield                                     | 31.4                    | MPa               | ASTM D638            |
| Yield, 23°C                               | 27.0                    | MPa               | ISO 527-2/50         |
| Tensile Elongation                        |                         |                   |                      |
| Yield                                     | 13                      | %                 | ASTM D638            |
| Yield, 23°C                               | 15                      | %                 | ISO 527-2/50         |

|                                                          |               |                   |             |
|----------------------------------------------------------|---------------|-------------------|-------------|
| Flexural Modulus                                         |               |                   |             |
| --                                                       | 1230          | MPa               | ASTM D790   |
| --                                                       | 1050          | MPa               | ISO 178     |
| Impact                                                   | Nominal Value | Unit              | Test Method |
| Charpy Notched Impact Strength                           |               |                   | ISO 179/1eA |
| 0°C                                                      | 3.0           | kJ/m <sup>2</sup> |             |
| 23°C                                                     | 5.5           | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength (23°C)                  | No Break      |                   | ISO 179/1eU |
| Notched Izod Impact (23°C)                               | 49            | J/m               | ASTM D256   |
| Thermal                                                  | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 95.0          | °C                | ASTM D648   |

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

