

# EL-Lene™ M3204RU

Linear Low Density Polyethylene

SCG Chemicals Co., Ltd.

## Message:

M3204RU/RUP and Marvel M30, M40 are linear-low density polyethylene (LLDPE) for rotational molding applications. M3204RU is a natural color available in powder and pellet form. Provide an excellent impact property with a balancing of stiffness and processability. Both of them are suitable for rotational molding of container and general applications.

| General Information                          |                             |                   |             |
|----------------------------------------------|-----------------------------|-------------------|-------------|
| Features                                     | Rigidity, high              |                   |             |
|                                              | Rigid, good                 |                   |             |
|                                              | Impact resistance, high     |                   |             |
|                                              | Good UV resistance          |                   |             |
|                                              | Workability, good           |                   |             |
|                                              | Good toughness              |                   |             |
|                                              | Compliance of Food Exposure |                   |             |
| Uses                                         | Industrial container        |                   |             |
|                                              | Container                   |                   |             |
|                                              | Outdoor application         |                   |             |
|                                              | General                     |                   |             |
| Agency Ratings                               | FDA 21 CFR 177.1520         |                   |             |
| Appearance                                   | Natural color               |                   |             |
| Forms                                        | Powder                      |                   |             |
|                                              | Particle                    |                   |             |
| Processing Method                            | rotomolding                 |                   |             |
| Physical                                     | Nominal Value               | Unit              | Test Method |
| Density                                      | 0.932                       | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)    | 4.0                         | g/10 min          | ASTM D1238  |
| Hardness                                     | Nominal Value               | Unit              | Test Method |
| Durometer Hardness (Shore D)                 | 55                          |                   | ASTM D2240  |
| Mechanical                                   | Nominal Value               | Unit              | Test Method |
| Tensile Strength <sup>1</sup>                |                             |                   | ASTM D638   |
| Yield                                        | 17.0                        | MPa               | ASTM D638   |
| Fracture                                     | 25.0                        | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)      | 1000                        | %                 | ASTM D638   |
| Bending modulus-Transverse flow <sup>3</sup> | 580                         | MPa               | ASTM D790   |
| Thermal                                      | Nominal Value               | Unit              | Test Method |

|                                                         |         |    |            |
|---------------------------------------------------------|---------|----|------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 64.0    | °C | ASTM D648  |
| Brittleness Temperature                                 | < -60.0 | °C | ASTM D746  |
| Vicat Softening Temperature                             | 110     | °C | ASTM D1525 |
| Melting Temperature                                     | 125     | °C | ASTM D2117 |
| Crystallization Point                                   | 110     | °C | ASTM D2117 |

#### Additional Information

ARM Impact Strength, ARM Method, -40°C, 5mm, rotomolded: 25 J/mmOven Temperature: 250 to 300°C

#### NOTE

1. 50 mm/min
2. 50 mm/min
3. 2.0 mm/min

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

