

## Technical Data Sheet

### *lcorene* 3550-6121BG Pine Green



Linear Low Density Polyethylene

#### Product Description

General purpose linear low density polyethylene compound offering quick cycles and part to part consistency. Available as pellet or powder.

|                          |                         |
|--------------------------|-------------------------|
| <b>Processing Method</b> | Rotomolding             |
| <b>Attribute</b>         | Fast Molding Cycle      |
| <b>Forms</b>             | Pellets; Powder         |
| <b>Appearance</b>        | Black; Colors Available |
| <b>Additive</b>          | UV Stabilizer           |
| <b>Application</b>       | General Purpose         |

| Typical Properties                                                            | Nominal Value  | Units             | Test Method |
|-------------------------------------------------------------------------------|----------------|-------------------|-------------|
| <b>Physical</b>                                                               |                |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                                              | 3.3 to 5.0     | g/10 min          | ASTM D1238  |
| Density                                                                       | 0.932 to 0.937 | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                                             |                |                   |             |
| Tensile Strength at Yield, (51 mm/min, Rotational Molded)                     | 13.8 to 18.6   | MPa               | ASTM D638   |
| Environmental Stress Crack Resistance, (Compression Molded, F50, 100% Igepal) | >1000          | hr                | ASTM D1693  |
| Flexural Modulus, (Rotational Molded, 1% Secant)                              | 600 to 724     | MPa               | ASTM D790   |
| <b>Impact</b>                                                                 |                |                   |             |
| Impact Strength                                                               |                |                   |             |
| (-40 °C, 3.18 mm, Rotational Molded)                                          | 71             | J                 | ARM         |
| (-40 °C, 6.35 mm, Rotational Molded)                                          | 210            | J                 | ARM         |
| <b>Thermal</b>                                                                |                |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi), (Rotational Molded)   | 38.9           | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi), (Rotational Molded)    | 55.0           | °C                | ASTM D648   |