

## Technical Data Sheet

### *Icorene* 1041 RED 4348

Linear Low Density Polyethylene

#### Product Description

*Icorene* 1041 is a linear low density polyethylene specifically developed for rotational moulding. This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow and stiffness.

|                          |  |
|--------------------------|--|
| <b>Processing Method</b> | Rotomolding  |
| <b>Attribute</b>         | Good Flow; Good Processability; Good Stiffness; Good Toughness; UV Resistant |
| <b>Forms</b>             | Powder   |
| <b>Appearance</b>        | Natural Color; Unspecified Color   |
| <b>Additive</b>          | UV Stabilizer  |
| <b>Application</b>       | Agricultural Tanks; Containers; General Purpose                              |

| Typical Properties               | Nominal Value | Units             | Test Method |
|----------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                  |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg) | 4.4           | g/10 min          | ASTM D1238  |
| Density                          | 0.932         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                |               |                   |             |
| Tensile Elongation at Yield      | 28            | %                 | ASTM D638   |
| Tensile Strength at Yield        | 17            | MPa               | ASTM D638   |
| Tensile Strength at Break        | 20            | MPa               | ASTM D638   |
| Flexural Modulus                 | 490           | MPa               | ASTM D790   |
| Tensile Elongation at Break      | 1300          | %                 | ASTM D638   |
| <b>Impact</b>                    |               |                   |             |
| Drop Impact Resistance           |               |                   |             |
| (-20 °C, Internal Method)        | 180           | J/cm              | ASTM D4226  |
| (23 °C, Internal Method)         | 140           | J/cm              | ASTM D4226  |
| (-40 °C, Internal Method)        | 190           | J/cm              | ASTM D4226  |