

## Technical Data Sheet

### *Icorene* 3560 GRN 6144

Linear Low Density Polyethylene

#### Product Description

*Icorene* 3560 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>       | Containers; General Purpose; Tanks                                           |

| Typical Properties                                                            | Nominal Value | Units             | Test Method |
|-------------------------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                                               |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                                              | 5.0           | g/10 min          | ASTM D1238  |
| Density                                                                       | 0.935         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                                             |               |                   |             |
| Tensile Strength at Yield                                                     | 17            | MPa               | ASTM D638   |
| Environmental Stress Crack Resistance, (Condition B, F50, 100% Igepal, 50 °C) | >150          | hr                | ASTM D1693  |
| Flexural Modulus                                                              | 550           | MPa               | ISO 178     |
| <b>Impact</b>                                                                 |               |                   |             |
| Drop Impact Resistance, (-20 °C, Internal Method)                             | 170           | J/cm              | ASTM D4226  |
| <b>Hardness</b>                                                               |               |                   |             |
| Durometer Hardness, (Shore D)                                                 | 55            |                   | ASTM D2240  |
| <b>Thermal</b>                                                                |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi)                        | 36            | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)                         | 52            | °C                | ASTM D648   |
| Peak Melting Temperature                                                      | 125           | °C                | ASTM D3418  |