

## Technical Data Sheet

### *Icorene* 2550 BLK 9001



Linear Low Density Polyethylene

#### Product Description

*Icorene* 2550 is a linear low density polyethylene powder specifically developed for rotational moulding. This grade has been designed for applications requiring good processability, toughness and flexibility and is suitable in many different applications.

|                          |                                                                     |
|--------------------------|---------------------------------------------------------------------|
| <b>Processing Method</b> | Rotomolding                                                         |
| <b>Attribute</b>         | Good Flexibility; Good Processability; Good Toughness; UV Resistant |
| <b>Forms</b>             | Powder                                                              |
| <b>Appearance</b>        | Natural Color; Unspecified Color                                    |
| <b>Additive</b>          | UV Stabilizer                                                       |
| <b>Application</b>       | Flotation Devices; Furniture; Outdoor Furnishings                   |

| Typical Properties                                | Nominal Value | Units             | Test Method |
|---------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                   |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                  | 3.6           | g/10 min          | ASTM D1238  |
| Density                                           | 0.924         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                 |               |                   |             |
| Tensile Strength at Yield                         | 16            | MPa               | ASTM D638   |
| Tensile Strength at Break                         | 11            | MPa               | ASTM D638   |
| Flexural Modulus                                  | 440           | MPa               | ASTM D790   |
| Tensile Elongation at Break                       | >1000         | %                 | ASTM D638   |
| <b>Impact</b>                                     |               |                   |             |
| Drop Impact Resistance, (-20 °C, Internal Method) | 200           | J/cm              | ASTM D4226  |
| <b>Hardness</b>                                   |               |                   |             |
| Durometer Hardness, (Shore D)                     | 52            |                   | ASTM D2240  |