

## Technical Data Sheet

### *Icorene* 3855 ORE 3400



Polyethylene, Medium Density

#### Product Description

*Icorene* 3855 is a hexene medium density polyethylene with outstanding processability, 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.

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Processing Method | Rotomolding                                                       |
| Attribute         | Good Processability; Good Stiffness; Good Toughness; UV Resistant |
| Forms             | Powder                                                            |
| Appearance        | Natural Color; Unspecified Color                                  |
| Additive          | UV Stabilizer                                                     |
| Application       | Containers; General Purpose                                       |

| 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                                           | 0.938         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                 |               |                   |             |
| Tensile Strength at Yield                         | 19.0          | MPa               | ISO 527     |
| Flexural Modulus                                  | 750           | MPa               | ISO 178     |
| Tensile Elongation at Break                       | >700          | %                 | ASTM D638   |
| <b>Impact</b>                                     |               |                   |             |
| Drop Impact Resistance, (-20 °C, Internal Method) | 190           | J/cm              | ASTM D4226  |
| <b>Hardness</b>                                   |               |                   |             |
| Durometer Hardness, (Shore D)                     | 55            |                   | ASTM D2240  |
| <b>Thermal</b>                                    |               |                   |             |
| Vicat Softening Temperature                       | 116           | °C                | ISO 306     |
| Melting Temperature                               | 127           | °C                | DSC         |