

## Technical Data Sheet

### *Icorene* 1761 NAT 0000



Polyethylene, Linear Low Density, Metallocene

#### Product Description

*Icorene* 1761 is a metallocene linear low density polyethylene for rotational moulding applications. This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow, high impact, and surface gloss.

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Processing Method | Rotomolding                                                                 |
| Attribute         | Good Toughness; High Flow; High Gloss; High Impact Resistance; UV Resistant |
| Forms             | Powder                                                                      |
| Appearance        | Natural Color; Unspecified Color                                            |
| Additive          | UV Stabilizer                                                               |
| Application       | General Purpose; Molds/Dies/Tools                                           |

| Typical Properties                                | Nominal Value | Units             | Test Method |
|---------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                   |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                  | 6.0           | g/10 min          | ASTM D1238  |
| Density                                           | 0.935         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                 |               |                   |             |
| Tensile Strength at Yield                         | 18.0          | MPa               | ISO 527-2   |
| Tensile Strength at Break                         | 11.0          | MPa               | ISO 527-2   |
| Environmental Stress Crack Resistance             |               |                   |             |
| (10% Igepal)                                      | >300          | hr                | ASTM D1693  |
| (100% Igepal)                                     | >1000         | hr                | ASTM D1693  |
| Flexural Modulus                                  | 700           | MPa               | ISO 178     |
| Tensile Elongation at Break                       | >800          | %                 | ASTM D638   |
| <b>Impact</b>                                     |               |                   |             |
| Drop Impact Resistance, (-20 °C, Internal Method) | 190           | J/cm              | ASTM D4226  |
| <b>Thermal</b>                                    |               |                   |             |
| Vicat Softening Temperature                       | 121           | °C                | ISO 306     |
| Melting Temperature                               | 123           | °C                | ISO 11357   |