

## Technical Data Sheet

### *Icorene* 1761 BLK 9005



Polyethylene, Linear Low Density, Metallocene

#### Product Description

*Icorene* 1761 BLACK 9005 is a metallocene linear low density polyethylene for rotational moulding applications. This grade is specifically developed for dieseltanks. It has a good balance of properties such as toughness, easy flow and high impact.

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| <b>Processing Method</b> | Rotomolding                                                                 |
| <b>Attribute</b>         | Good Toughness; High Flow; High Gloss; High Impact Resistance; UV Resistant |
| <b>Forms</b>             | Powder                                                                      |
| <b>Appearance</b>        | Black                                                                       |
| <b>Additive</b>          | UV Stabilizer                                                               |
| <b>Application</b>       | General Purpose; Tanks                                                      |

| 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                         | 19.0          | MPa               | ISO 527-2   |
| Flexural Modulus                                  | 700           | MPa               | ISO 178     |
| Tensile Elongation at Break                       | >700          | %                 | ISO 527-2   |
| <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   |