

## Technical Data Sheet

### *Icorene 5704 BUE 5747*



Polyethylene, Medium Density

#### Product Description

*Icorene 5704* is a metallocene medium density polyethylene specifically developed for rotational moulding. This grade is a suitable grade for use in kayaks and boats applications. It has a good balance of properties such as toughness easy flow and stiffness.

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| Processing Method | Rotomolding                                             |
| Attribute         | Good Stiffness; Good Toughness; High Flow; UV Resistant |
| Forms             | Powder                                                  |
| Appearance        | Natural Color; Unspecified Color                        |
| Additive          | UV Stabilizer                                           |
| Application       | Water Sports Equipment                                  |

| 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                         | 20            | MPa               | ASTM D638   |
| Flexural Modulus                                  | 695           | MPa               | ASTM D790   |
| <b>Impact</b>                                     |               |                   |             |
| Charpy Impact Strength - Notched                  | 17            | kJ/m <sup>2</sup> | ISO 179     |
| Drop Impact Resistance, (-20 °C, Internal Method) | 200           | J/cm              | ASTM D4226  |