

## Technical Data Sheet

***Icorene 3855 GRY 7426***

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.

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

| <b>Typical Properties</b>                         | <b>Nominal Value</b> | <b>Units</b>      | <b>Test Method</b> |
|---------------------------------------------------|----------------------|-------------------|--------------------|
| <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                |