

## Technical Data Sheet

***Icorene* 3568-35G BLACK**

Linear Low Density Polyethylene

**Product Description**

*Icorene* 3568 is a linear low density polyethylene for rotational molding applications. The grade is UV stabilized and suitable for applications requiring good stiffness and processability.

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

| <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)                                                      | 6.0 to 7.0           | g/10 min          | ASTM D1238         |
| Density                                                                               | 0.934 to 0.937       | g/cm <sup>3</sup> | ASTM D1505         |
| <b>Mechanical</b>                                                                     |                      |                   |                    |
| Tensile Strength at Yield, (50 mm/min)                                                | 17.9                 | MPa               | ASTM D638          |
| Environmental Stress Crack Resistance                                                 |                      |                   |                    |
| (Condition A, F50, 100% Igepal)                                                       | >1000                | hr                | ASTM D1693         |
| (F50, 10% Igepal)                                                                     | 50.0                 | hr                | ASTM D1693         |
| Flexural Modulus, (1.3 mm/min, 1% Secant)                                             | 724                  | MPa               | ASTM D790          |
| <b>Impact</b>                                                                         |                      |                   |                    |
| Impact Strength                                                                       |                      |                   |                    |
| (-40 °C, 3.18 mm, Rotational Molded)                                                  | 75                   | J                 | ARM                |
| (-40 °C, 6.35 mm, Rotational Molded)                                                  | >258                 | J                 | ARM                |
| <b>Thermal</b>                                                                        |                      |                   |                    |
| Deflection Temperature Under Load Unannealed (264 psi), (0.125 mm, Rotational Molded) | 38.3                 | °C                | ASTM D648          |
| Deflection Temperature Under Load Unannealed (66 psi)                                 | 56.7                 | °C                | ASTM D648          |