

## Technical Data Sheet

***Icorene* 3570-5979GST SURF TREA PIN**

Linear Low Density Polyethylene

**Product Description**

*Icorene* 3570 is a linear low density polyethylene for rotational molding applications such as high end coolers, toys, playgrounds, tanks, etc. The grade is UV stabilized and suitable for applications requiring good stiffness and processability. Very good mold surface finish.

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

| <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)                                                      | 6.8                  | g/10 min          | ASTM D1238         |
| Density                                                                               | 0.935                | g/cm <sup>3</sup> | ASTM D1505         |
| <b>Mechanical</b>                                                                     |                      |                   |                    |
| Tensile Strength at Yield, (50 mm/min)                                                | 18.3                 | 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)                                             | 696                  | MPa               | ASTM D790          |
| <b>Impact</b>                                                                         |                      |                   |                    |
| Impact Strength                                                                       |                      |                   |                    |
| (-40 °C, 3.18 mm, Rotational Molded)                                                  | 68                   | 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) | 38.6                 | °C                | ASTM D648          |
| Deflection Temperature Under Load Unannealed (66 psi)                                 | 57.2                 | °C                | ASTM D648          |