

## Technical Data Sheet

### *Icorene* 3560-729 TAN 33446 PA-60BWN



Linear Low Density Polyethylene

#### Product Description

*Icorene* 3560 is a polyethylene developed for rotational molding applications. Intended applications are primarily large hollow objects, including toys, playground equipment, and a variety of other products.

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Processing Method | Rotomolding                                     |
| Attribute         | Low Temperature Impact Resistance; UV Resistant |
| Forms             | Pellets; Powder                                 |
| Appearance        | Black; Colors Available                         |
| Additive          | UV Stabilizer                                   |
| Application       | General Purpose; Toys                           |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                       | 6.7           | g/10 min          | ASTM D1238  |
| Density                                                | 0.935         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield, (51 mm/min, Type IV)        | 18.3          | MPa               | ASTM D638   |
| Environmental Stress Crack Resistance                  |               |                   |             |
| (F50, 10% Igepal)                                      | 50.0          | hr                | ASTM D1693  |
| (F50, 100% Igepal)                                     | >1000         | hr                | ASTM D1693  |
| Flexural Modulus                                       | 696           | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Impact Strength                                        |               |                   |             |
| (-40 °C, 3.18 mm, Rotational Molded)                   | 71            | J                 | ARM         |
| (-40 °C, 6.35 mm, Rotational Molded)                   | 217           | J                 | ARM         |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 38.3          | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 54.4          | °C                | ASTM D648   |