

## Technical Data Sheet

### *Polyaxis* CP 812 101 WHITE PELLETS

Linear Low Density Polyethylene

#### Product Description

*Polyaxis* CP 812 is a general purpose linear low density polyethylene compound offering quick cycles and part to part consistency. Available as pellet or powder.

|                   |                           |
|-------------------|---------------------------|
| Processing Method | Rotomolding               |
| Attribute         | Fast Molding Cycle        |
| Forms             | Pellets; Powder           |
| Appearance        | Colors Available          |
| Additive          | Long Term UV-8 Stabilizer |
| Application       | General Purpose           |

| Typical Properties                                                                    | Nominal Value  | Units             | Test Method |
|---------------------------------------------------------------------------------------|----------------|-------------------|-------------|
| <b>Physical</b>                                                                       |                |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                                                      | 5.0 to 7.0     | g/10 min          | ASTM D1238  |
| Density                                                                               | 0.932 to 0.939 | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                                                     |                |                   |             |
| Tensile Strength at Yield, (51 mm/min, Rotational Molded)                             | 15.5           | MPa               | ASTM D638   |
| Environmental Stress Crack Resistance                                                 |                |                   |             |
| (Compression Molded, F50, 100% Igepal)                                                | >500           | hr                | ASTM D1693  |
| (Compression Molded, F50, 10% Igepal)                                                 | >25.0          | hr                | ASTM D1693  |
| Flexural Modulus, (Rotational Molded, 1% Secant)                                      | 586            | MPa               | ASTM D790   |
| Tensile Elongation at Break, (51 mm/min, Rotational Molded)                           | 500            | %                 | ASTM D638   |
| <b>Impact</b>                                                                         |                |                   |             |
| Impact Strength                                                                       |                |                   |             |
| (-40 °C, 3.18 mm, Rotational Molded)                                                  | 76             | J                 | ARM         |
| (-40 °C, 6.35 mm, Rotational Molded)                                                  | 197            | J                 | ARM         |
| <b>Thermal</b>                                                                        |                |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi), (0.125 mm, Rotational Molded) | 36.0           | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi), (0.125 mm, Rotational Molded)  | 54.0           | °C                | ASTM D648   |
| <b>UL Information</b>                                                                 |                |                   |             |
| Flame Rating, (1.5 mm)                                                                | HB             |                   | UL 94       |
| UL File Number, (USA)                                                                 | E 51193        |                   |             |