

## Technical Data Sheet

### *Polyaxis* RLLP 622-2A730G COOL GRY



High Density Polyethylene

#### Product Description

*Polyaxis* RLLP 622-2A730G COOL GRY is a Polyethylene, High Density material and is typically used in Rotational Molding applications.

#### Regulatory Status

For regulatory compliance information, see *Polyaxis* RLLP 622-2A730G COOL GRY [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                          |                         |
|--------------------------|-------------------------|
| <b>Status</b>            | Commercial: Active      |
| <b>Availability</b>      | North America           |
| <b>Processing Method</b> | Rotomolding             |
| <b>Forms</b>             | Pellets; Powder         |
| <b>Appearance</b>        | Colors Available; White |

| Typical Properties                                                                   | Nominal Value | Units             | Test Method |
|--------------------------------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                                                      |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                                                     | 6.5           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                                                           | 1.02          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                                                    |               |                   |             |
| Tensile Strength at Yield, (51 mm/min, Rotational Molded)                            | 15.2          | MPa               | ASTM D638   |
| Flexural Modulus, (Rotational Molded, 1% Secant)                                     | 586           | MPa               | ASTM D790   |
| Tensile Elongation at Break, (51 mm/min, Rotational Molded)                          | 50            | %                 | ASTM D638   |
| <b>Impact</b>                                                                        |               |                   |             |
| Impact Strength                                                                      |               |                   |             |
| (-40 °C, 3.18 mm, Rotational Molded)                                                 | 27            | J                 | ARM         |
| (-40 °C, 6.35 mm, Rotational Molded)                                                 | 27            | J                 | ARM         |
| <b>Thermal</b>                                                                       |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm, Rotational Molded) | 39.2          | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi), (Rotational Molded)           | 48.0          | °C                | ASTM D648   |
| <b>UL Information</b>                                                                |               |                   |             |
| Flame Rating, (1.5 mm)                                                               | V-2           |                   | UL 94       |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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