

## Technical Data Sheet

### *Polyaxis* RLLP 626-31 Black Pellets



High Density Polyethylene

#### Product Description

*Polyaxis* RLLP 626 is a high density polyethylene V-0 flame retardant resin intended for the rotational molding industry. This material is approved for V-0 at 0.157" (4mm) and 0.236" (6mm).

|                   |                         |
|-------------------|-------------------------|
| Processing Method | Rotomolding             |
| Forms             | Powder                  |
| Appearance        | Colors Available; White |
| Additive          | Flame Retardant         |

| Typical Properties   | Nominal Value | Units             | Test Method |
|--|---------------|-------------------|-------------|
| <b>Physical</b>  |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)   | 5.0           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity   | >1.10         | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>  |               |                   |             |
| Tensile Strength at Yield, (51 mm/min, Rotational Molded)                            | 15.9          | MPa               | ASTM D638   |
| Flexural Modulus, (Rotational Molded, 1% Secant)                                     | >869          | MPa               | ASTM D790   |
| Tensile Elongation at Break, (51 mm/min, Rotational Molded)                          | 13            | %                 | ASTM D638   |
| <b>Impact</b>  |               |                   |             |
| Impact Strength  |               |                   |             |
| (23 °C, 4.00 mm, Rotational Molded)  | >47           | J                 | ARM         |
| (23 °C, 6.00 mm, Rotational Molded)  | >61           | J                 | ARM         |
| <b>Thermal</b>   |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm, Rotational Molded) | 37.0          | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi), (Rotational Molded)           | 62.0          | °C                | ASTM D648   |
| <b>UL Information</b>  |               |                   |             |
| Flame Rating   |               |                   |             |
| (4.0 mm)   | V-0           |                   | UL 94       |
| (6.0 mm)   | V-0           |                   | 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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