

## Technical Data Sheet

### *Petrothene* LR732033



High Density Polyethylene

#### Product Description

*Petrothene* LR732033 exhibits exceptional processability when used in a wide variety of blowmolding processes. Finished articles made from this resin show an excellent balance of stiffness and environmental stress crack resistance. Typical applications include containers for bleach, detergent, household chemicals, and personal care products. LR732033 is formulated with a food-grade antistat.

#### Regulatory Status

For regulatory compliance information, see *Petrothene* LR732033 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                          |   |
|--------------------------|---|
| <b>Status</b>            | Commercial: Active                          |
| <b>Availability</b>      | North America                               |
| <b>Application</b>       | Bottles For Consumer Goods                  |
| <b>Market</b>            | Rigid Packaging                             |
| <b>Processing Method</b> | Extrusion Blow Molding                      |
| <b>Attribute</b>         | Contains Antistat; Excellent Processability |

| Typical Properties   | Nominal Value | English Units         | Nominal Value | SI Units          | Test Method |
|--|---------------|-----------------------|---------------|-------------------|-------------|
| <b>Physical</b>  |               |                       |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)   | 0.30          | g/10 min              | 0.30          | g/10 min          | ASTM D1238  |
| Density, (23 °C)   | 0.953         | g/cm <sup>3</sup>     | 0.953         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>  |               |                       |               |                   |             |
| Flexural Modulus, (1% Secant)  | 181000        | psi                   | 1250          | MPa               | ASTM D790   |
| Tensile Strength at Yield  | 4000          | psi                   | 27.6          | MPa               | ASTM D638   |
| Tensile Elongation at Break  | >500          | %                     | >500          | %                 | ASTM D638   |
| Environmental Stress Crack Resistance, F <sub>50</sub><br>(100% Igepal®, Cond B) | 30            | hr                    | 30            | hr                | ASTM D1693  |
| <b>Impact</b>  |               |                       |               |                   |             |
| Tensile Impact Strength  | 128           | ft-lb/in <sup>2</sup> | 269           | kJ/m <sup>2</sup> | ASTM D1822  |
| <b>Hardness</b>  |               |                       |               |                   |             |
| Shore Hardness, (Shore D)  | 67            |                       | 67            |                   | ASTM D2240  |
| <b>Thermal</b>   |               |                       |               |                   |             |
| Vicat Softening Temperature  | 259           | °F                    | 126           | °C                | ASTM D1525  |
| Low Temperature Brittleness, F <sub>50</sub>                                     | <-105         | °F                    | <-76          | °C                | ASTM D746   |
| Deflection Temperature Under Load, (66 psi, Unannealed)                          | 167           | °F                    | 75            | °C                | ASTM D648   |

## Notes

Igepal® is a registered trademark of Rhodia.

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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